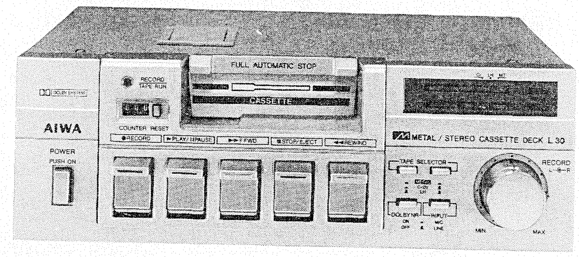
STEREO CASSETTE DECK

MODEL NO. SD-L30AH,BH

AIWA®

[SERVICE MANUAL]

Code No. 19-300-000-62



DATE OF ISSUE 4/1980

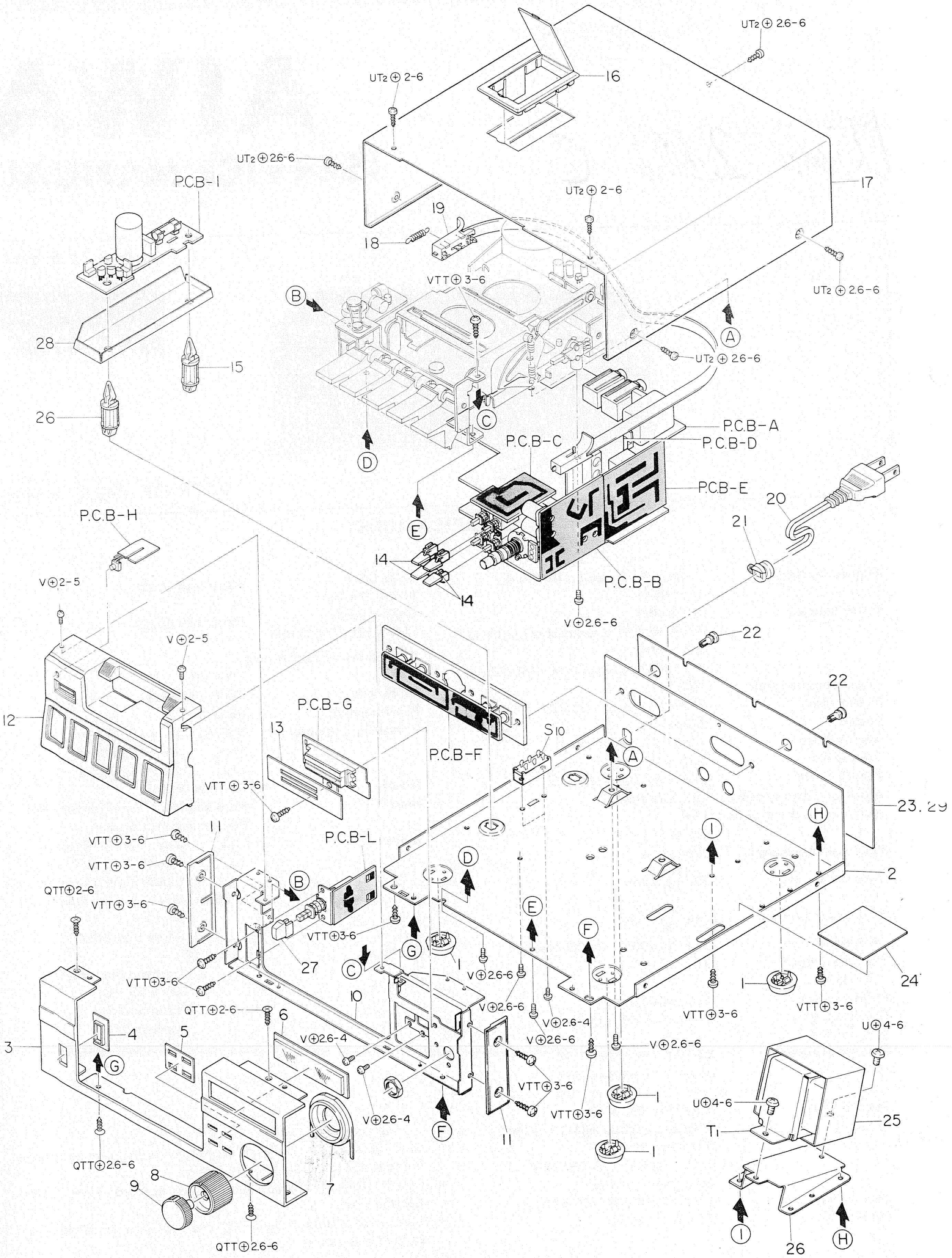
SPECIFICATIONS

Semiconductors:	6 IC's, 19 transistors, 10 diodes, 11 LED's
Power source:	AH model AC 120V/220V switchable 50/60 Hz BH model AC 120V/240V switchable 50/60 Hz
Power consumption:	10W
Dimensions:	210(W) x 71(H) x 230(D) mm
Weight:	2.8 kg
Track system:	4-track 2-channel stereo
Tape speed:	4.76 cm/s ± 1%
Wow & flutter:	Less than 0.09% (WRMS)
Automatic stop system:	Full auto-stop
Automatic shut-off action time:	5 ± 3 s.
Pinch roller pressure:	300 ± 50 g
Take-up torque:	50^{+20}_{-10} g-cm
FF & rewind torque:	140^{+60}_{-50} g-cm
FF & rewind time:	Less than 90 s (w/c-60 cassette)
Playback output: (TTA-161)	0.58 ± 0.05V (LINE)
Playback noise:	Less than 2.0 mV
Rec./Pb output: (400 Hz,0 VU)	0 VU ± 1.5 dB (LINE)
Rec./Pb distortion: (400 Hz,0 VU)	METAL Less than 1.5% CrO$_2$ Less than 2.0% LH Less than 1.2%
Rec./Pb S/N: (400 Hz)	More than 48/54 dB (METAL, DOLBY NR OFF/ON) More than 49/54 dB (CrO$_2$, DOLBY NR OFF/ON) More than 46/52 dB (LH, DOLBY NR OFF/ON)
Channel separation: (1 kHz,0 VU)	More than 35 dB

Cross talk: (1 kHz,0 VU)	More than 60 dB
Erasing ratio: (400 Hz,0 VU +10 dB)	More than 60 dB
Level indicator display error:	± 1.5 dB
Dolby effect:	More than 8 dB
Bias frequency:	85 kHz
Frequency response:	METAL 25 ~ 16,000 Hz CrO$_2$ 25 ~ 16,000 Hz LH 25 ~ 14,000 Hz
Motor:	DC servo motor
Head:	Hard permalloy head (for Rec./Pb) Ferrite head (for Erase)
Input:	MIC; Max. input sensitivity 0.3 mV (200Ω ~10kΩ suitable) LINE IN; Max. input sensitivity 50 mV (More than 50kΩ)
Output:	LINE OUT; Standard output level 0.41V (0 VU) Optimum load impedance More than 50kΩ

- Speciifications and external appearance are subject to change without due to product improvement.
- Dolby Noise Reduction System is licensed from Dolby Laboratories.
- The name "Dolby" and DD symbol are trademarks of Dolby Laboratories.

EXPLODED VIEW—1


UT2 ⊕ 2.6-6
UT2 ⊕ 2-6
16
UT2 ⊕ 2.6-6
P.C.B-I
17
UT2 ⊕ 2-6
19
18
VTT ⊕ 3-6
UT2 ⊕ 2.6-6
Ⓑ
Ⓐ
28
UT2 ⊕ 2.6-6
15
26
Ⓒ
P.C.B-A
Ⓓ
P.C.B-C
P.C.B-D
P.C.B-E
20
P.C.B-H
Ⓔ
21
14
14
P.C.B-B
V⊕2-5
V⊕2.6-6
22
V ⊕2-5
22
12
P.C.B-G
13
S10
P.C.B-F
Ⓐ
VTT ⊕ 3-6
23. 29
Ⓗ
Ⓘ
11
P.C.B-L
VTT⊕3-6
VTT⊕3-6
Ⓓ
2
QTT⊕2-6
Ⓑ
VTT⊕ 3-6
Ⓔ
Ⓕ
VTT⊕3-6
Ⓖ
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27
Ⓒ
V⊕2.6-6
VTT⊕3-6
24
V⊕2.6-6
1
10
QTT⊕2-6
6
V⊕2.6-4
VTT⊕3-6
VTT⊕3-6
U⊕4-6
3
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V⊕2.6-4
V⊕2.6-6
V⊕2.6-6
Ⓖ
VTT⊕3-6
1
U⊕4-6
V⊕2.6-4
Ⓕ
11
VTT⊕3-6
25
T1
7
1
QTT⊕2.6-6
8
9
QTT⊕2.6-6
Ⓘ
26
Ⓗ

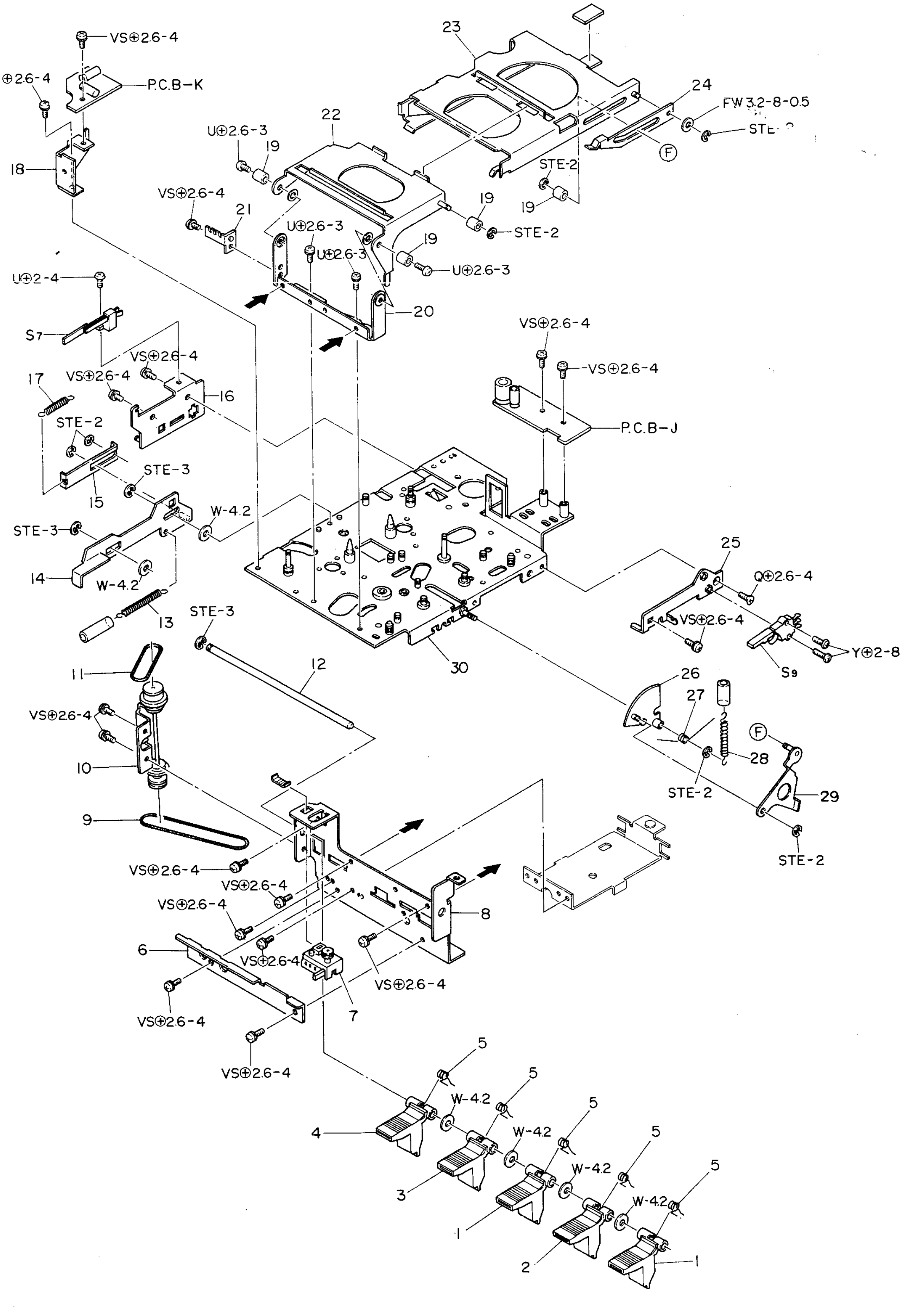
PARTS LIST

MECHANICAL PARTS

- * mark in this part list shows exclusive part (which is used) for only Model No. SD-L30.

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1-1	85-745-019-01		Foot		4
1-2	82-164-205-01		Chassis, Amp.	*	1
1-3	82-164-038-01		Panel, Front	*	1
1-4	82-745-012-01		Guide, Push-button C		1
1-5	82-164-203-01		Guide, Push-button A	*	1
1-6	82-164-015-01		Window, LED	*	1
1-7	82-748-003-01		Decorative plate G, Volume knob	SA-C50	1
1-8	82-164-011-01		Knob, REC (Low)	*	1
1-9	82-164-010-01		Knob, REC (Up)	*	1
1-10	82-164-202-01		Chassis, Front	*	1
1-11	82-745-003-01		Panel L, Side		2
1-12	09-047-178-01		Front cabinet ass'y	*	1
	82-164-003-01		Cabinet, Front	*	1
	82-164-005-01		Cassette lid	*	1
	82-164-007-01		Push-key plate	*	1
	82-164-006-01		Cassette plate	*	1
	82-150-208-11		T-spring, Cassette lid	SD-L22	1
	82-150-206-01		Shaft, Cassette lid	SD-L22	1
	82-150-211-01		Adhesive sheet, Cassette plate	SD-L22	1
	82-150-212-01		Adhesive sheet, PK plate	SD-L22	1
1-13	82-164-008-01		Plate, LED	*	1
1-14	82-145-008-01		Push-button A		4
1-15	82-150-204-01		Holder, Circuit	SD-L22	2
1-16	82-164-009-01		Head lid	*	1
1-17	82-164-002-01		Cabinet, Steel	*	1
1-18	82-150-207-01		E-spring, REC switch	SD-L22	1
1-19	87-034-925-01		Remote switch wire		1
1-20	87-034-927-01		AC power cord		1
1-21	87-085-165-01		Cord bushing		1
1-22	87-085-102-01		Nylon rivet		2
1-23	82-164-039-01		Jack plate (AH)	*	1
1-24	82-730-622-01		Insulation fiber		1
1-25	82-150-635-01		Core ring	SD-L22	1
1-26	82-150-214-01		Holder, Power transformer	SD-L22	1
1-27	82-745-010-01		Push-button C		1
1-28	82-150-647-01		Insulation sheet, Power	SD-L22	1
1-29	82-164-040-01		Jack plate (BH)	*	1

EXPLODED VIEW-2


VS⊕2.6-4
VS⊕2.6-4
P.C.B-K
18
23
24
FW3.2-8-0.5
STE-2
F
22
U⊕2.6-3
19
STE-2
19
19
VS⊕2.6-4
21
19
STE-2
U⊕2.6-3
U⊕2.6-3
19
U⊕2.6-3
20
U⊕2-4
S7
VS⊕2.6-4
VS⊕2.6-4
16
17
VS⊕2.6-4
VS⊕2.6-4
P.C.B-J
STE-2
STE-3
15
W-4.2
STE-3
14
W-4.2
13
STE-3
25
Q⊕2.6-4
VS⊕2.6-4
Y⊕2-8
S9
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12
11
26
27
F
VS⊕2.6-4
28
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STE-2
29
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STE-2
VS⊕2.6-4
VS⊕2.6-4
VS⊕2.6-4
8
6
VS⊕2.6-4
VS⊕2.6-4
VS⊕2.6-4
7
VS⊕2.6-4
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W-4.2
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W-4.2
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W-4.2
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W-4.2
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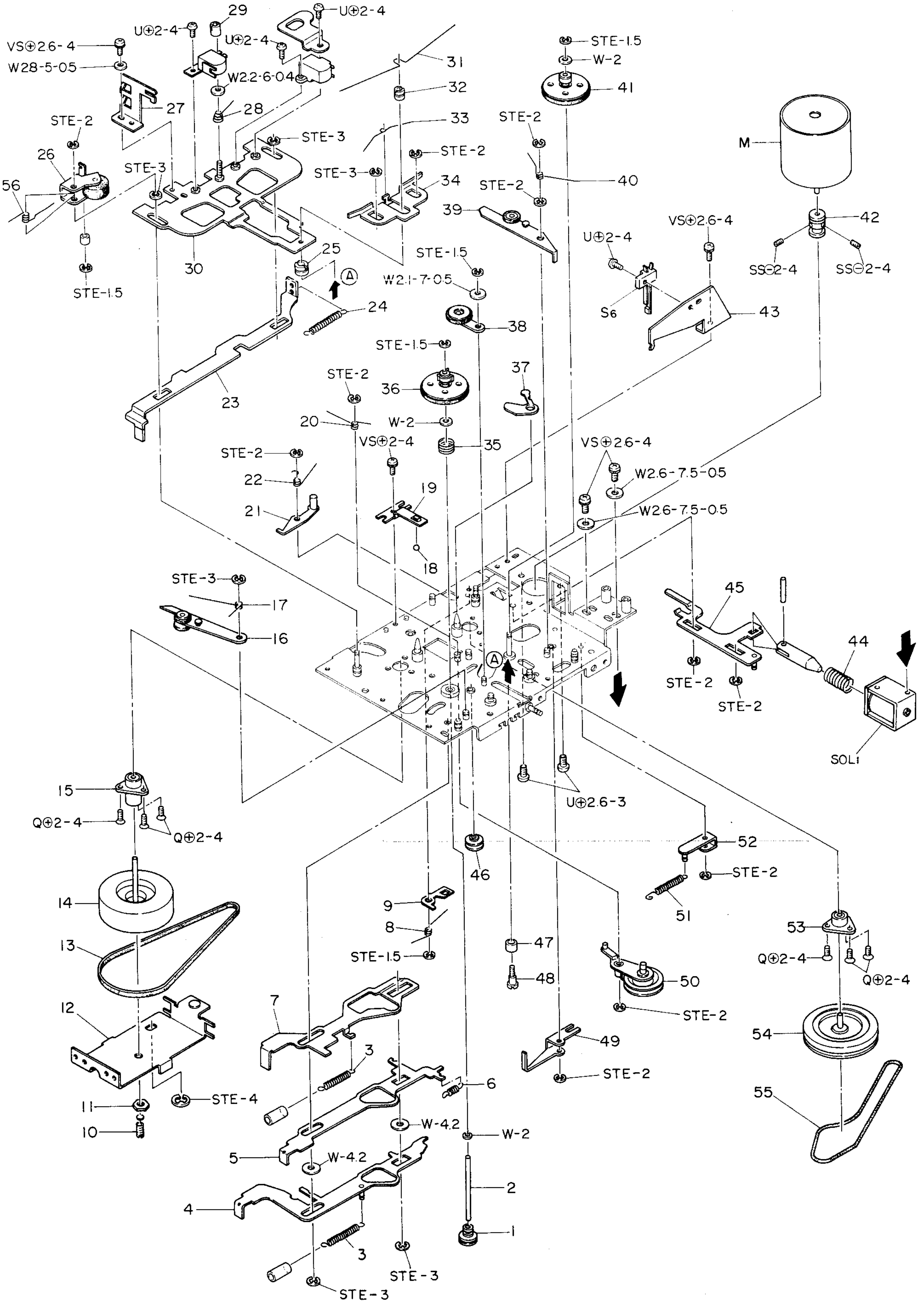
EXPLODED VIEW–3


29
U⊕2-4
U⊕2-4
VS⊕2.6-4
W28-5-05
U⊕2-4
W2.2-6-04
31
STE-1.5
W-2
41
32
27
28
STE-2
STE-3
33
STE-2
M
26
STE-3
STE-3
STE-2
34
STE-2
40
56
39
VS⊕2.6-4
42
U⊕2-4
SS⊖2-4
SS⊖2-4
30
25
STE-1.5
STE-1.5
W2.1-7-0.5
Ⓐ
S6
43
24
38
23
STE-1.5
STE-2
37
36
20
W-2
VS⊕2-4
35
VS⊕2.6-4
STE-2
W2.6-7.5-05
22
19
21
W2.6-7.5-0.5
18
STE-3
45
17
16
Ⓐ
44
STE-2
STE-2
SOL1
U⊕2.6-3
15
Q⊕2-4
Q⊕2-4
52
46
STE-2
14
51
9
13
53
8
47
Q⊕2-4
Q⊕2-4
STE-1.5
48
50
12
7
STE-2
54
3
49
STE-2
6
55
STE-4
11
W-4.2
W-2
10
5
W-4.2
2
4
1
3
STE-3
STE-3

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-150-255-01		Push-key	SD-L22	2
2-2	82-150-319-01		Push-key (Blue)	SD-L22	1
2-3	82-150-320-01		Push-key (Green)	SD-L22	1
2-4	82-150-318-01		Push-key (Red)	SD-L22	1
2-5	82-150-321-01		Spring, Push-key	SD-L22	1
2-6	82-150-253-02		Lever, Stopper	SD-L22	1
2-7	82-150-316-01		Counter	SD-L22	1
2-8	82-150-252-01		Holder, Lever	SD-L22	1
2-9	82-540-339-01		Belt, Reel platform		1
2-10	82-150-276-01		Pulley plate ass'y	SD-L22	1
2-11	82-150-294-01		Belt, Counter	SD-L22	1
2-12	82-150-317-01		Shaft, Push-key	SD-L22	1
2-13	82-150-325-01		Spring, REC lever	SD-L22	1
2-14	82-150-282-01		REC lever ass'y	SD-L22	1
2-15	82-150-242-01		Holder, REC SW plate spring	SD-L22	1
2-16	82-150-281-01		REC SW holder ass'y	SD-L22	1
2-17	82-150-330-01		Spring, REC	SD-L22	1
2-18	82-150-254-01		Holder	SD-L22	1
2-19	82-484-356-01		Spacer, Bracket		2
2-20	82-150-223-01		CAS bracket B	SD-L22	1
2-21	82-150-263-01		PR spring holder	SD-L22	1
2-22	82-150-262-01		CAS bracket A Ass'y	SD-L22	1
2-23	82-150-260-01		Cassette case ass'y	SD-L22	1
2-24	82-150-342-01		CAS stopper	SD-L22	1
2-25	82-150-237-01		Holder, SSW	SD-L22	1
2-26	82-150-275-01		Holder UD plate ass'y	SD-L22	1
2-27	82-150-326-01		Spring, UD plate	SD-L22	1
2-28	82-150-328-01		Spring, Stop lever	SD-L22	1
2-29	82-150-261-01		Holder UD lever ass'y	SD-L22	1
2-30	82-150-278-01		Mechanism chassis ass'y	SD-L22	1

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
3-1	82-150-251-01		Pulley, Counter	SD-L22	1
3-2	82-150-311-01		Shaft, REW reel	SD-L22	1
3-3	82-150-327-01		Spring, STE lever	SD-L22	2
3-4	82-150-240-01		Lever, FF	SD-L22	1
3-5	82-150-239-01		Lever, REW	SD-L22	1
3-6	82-150-329-01		Spring, FRD lever	SD-L22	2
3-7	82-150-238-01		Lever, STE	SD-L22	1
3-8	82-150-286-01		Lock spring	SD-L22	1
3-9	82-150-285-01		Cam plate	SD-L22	1
3-10	82-150-295-01		Screw (for thrust adjustment)	SD-L22	1
3-11	82-150-296-01		Nut, Flywheel bearing	SD-L22	1
3-12	82-150-274-01		Flywheel ass'y	SD-L22	1
3-13	82-150-292-01		Belt	SD-L22	1
3-14	82-150-290-01		Flywheel ass'y	SD-L22	1
3-15	82-150-291-01		Flywheel bearing shaft ass'y	SD-L22	1
3-16	82-150-298-01		FF arm ass'y	SD-L22	1
3-17	82-150-337-01		Spring, FF arm	SD-L22	1
3-18	82-484-371-01		Steel ball		1
3-19	82-150-304-01		HP slide plate spring	SD-L22	1
3-20	82-150-338-01		Spring, Clutch lever	SD-L22	1
3-21	82-150-280-01		REC lock plate ass'y	SD-L22	1
3-22	82-150-330-01		Spring, REC	SD-L22	1
3-23	82-150-279-01		Pause lever ass'y	SD-L22	1
3-24	82-484-281-01		Spring, FRD lever		1
3-25	82-484-328-01		HP spacer		1
3-26	82-150-264-01		PR lever F ass'y	SD-L22	1
3-27	82-150-273-01		Stopper, Head	SD-L22	1
3-28	82-150-271-01		Spring, Azimuth	SD-L22	1
3-29	82-150-272-01		Post A, Azimuth	SD-L22	1
3-30	82-150-270-01		Head plate ass'y	SD-L22	1
3-31	82-484-290-01		HP spring		1
3-32	82-150-302-01		HP lock spacer	SD-L22	1
3-33	82-150-307-01		Spring, Brake	SD-L22	1
3-34	82-150-306-01		Brake lever	SD-L22	1
3-35	82-150-312-01		BT spring	SD-L22	1
3-36	82-150-310-01		Take up reel platform ass'y	SD-L22	1
3-37	82-150-248-01		Cam, Pause	SD-L22	1
3-38	82-150-308-01		Idler ass'y	SD-L22	1
3-39	82-150-297-01		REW arm ass'y	SD-L22	1
3-40	82-150-336-01		Spring, REW arm	SD-L22	1
3-41	82-150-309-01		Supply reel platform ass'y	SD-L22	1
3-42	82-150-267-01		Pulley, Motor	SD-L22	1
3-43	82-150-225-01		Holder, SW	SD-L22	1
3-44	82-150-284-01		Spring, Solenoid	SD-L22	1
3-45	82-150-265-01		Lock eject plate ass'y	SD-L22	1
3-46	82-150-241-01		Tension pulley	SD-L22	1
3-47	82-484-377-01		Roller, SFR lever		1
3-48	82-150-301-01		Shaft, HP lock	SD-L22	1
3-49	82-150-236-01		Lock plate	SD-L22	1
3-50	82-150-288-01		Clutch ass'y	SD-L22	1
3-51	82-150-323-01		Spring lock lever	SD-L22	1
3-52	82-150-268-01		FRD lock lever ass'y	SD-L22	1
3-53	82-150-340-01		Flywheel shaft bearing ass'y	SD-L22	1
3-54	82-150-332-01		Flywheel ass'y (S)	SD-L22	1
3-55	82-150-293-01		Belt, Clutch	SD-L22	1
3-56	82-150-314-01		PR spring F	SD-L22	1

ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	82-164-856-11		Printed indiv., Packing	*	1
2	82-164-852-01		Cushion L, Printed indiv.	*	1
3	82-164-853-01		Cushion R, Printed indiv.	*	1
4	87-051-130-11		Poly-vinyl sack (for screw)		1
5	87-051-131-11		Poly-vinyl sack (for AC power cord)		1
6	87-056-603-01		Poly-vinyl sack (for case)		1
7	82-164-905-01		Instructions booklet	*	1
8	87-051-171-11		Poly-vinyl sack (for instruction)		1
9	87-056-009-41		Distributors list		1
10	86-156-001-01		Handle		2
11	86-944-016-01		Connection cord CW-129DSK		2
12	87-032-845-01		Siemens plug		1

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ **MEMO** ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

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AIWA CO.,LTD.

Printed in Japan

ELECTRICAL MAIN PARTS LIST

≪ MAIN CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-A	82-164-607-01	Main circuit board
IC1	87-027-453-01	IC, AN7311
IC4,5	87-027-351-01	IC, LB-1416
IC6	87-027-539-01	IC, LA-3161
Q3,4	89-406-555-01	Transistor, 2SD655 (E)
Q5	89-107-336-01	Transistor, 2SA733 (P)
Q6,7	89-309-456-01	Transistor, 2SC945L (P)
Q8,15,16	89-318-156-01	Transistor, 2SC1815 (BL)
Q14	89-313-833-01	Transistor, 2SC1383 (R)
D1,4	87-027-475-01	Zener diode, HZ-6B1
D2,3	87-027-097-01	Diode, 1S1555
D6	87-027-474-01	Zener diode, HZ-11A2
L3,4	82-371-648-01	Micro inductor coil, 6.8mH
BIAS OSC UNIT	82-164-620-01	OSC unit
J5,6	87-032-952-01	Jack, 6.3φ (MIC)
S1	82-164-618-01	Slide switch (REC/PB)
S3	87-031-424-01	Push switch (DOLBY–NR)
S4	87-031-503-01	Push switch (INPUT SELECTOR)
SFR1,2,3,4	87-021-469-01	Semi-fixed resistor, 50kΩ-B
SFR7,8	87-021-470-01	Semi-fixed resistor, 100kΩ-B
PIN1,2	87-032-903-01	Pin, 3P
		< Capacitor >
C3,4	87-015-246-01	4.7μF 25V Electrolytic LL

≪ REC VOLUME CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-B	82-164-608-01	REC volume circuit board
Q1,2	89-318-155-01	Transistor, 2SC1815 (GR)
L1,2	87-008-173-01	Bias trap coil, 10mH
VR1,2	82-164-621-01	Volume, 50kΩ–A
SFR5,6	87-021-469-01	Semi-fixed resistor, 50kΩ–B
		< Capacitor >
C85,86	87-014-047-01	390pF PP

≪ SWITCH CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-C	82-164-609-01	Switch circuit board
S2	87-031-424-01	Push switch (TAPE SELECTOR)
S5	87-031-507-01	Push switch (TAPE SELECTOR)

≪ DOLBY – L CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-D	82-164-613-01	Dolby–L circuit board
IC2	87-027-381-01	IC, LM1011N
LPF1	87-030-061-01	Low-pass filter
		< Capacitor >
C31	87-015-241-01	1μF 50V Electrolytic LL

≪ DOLBY – R CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-E	82-164-610-01	Dolby–R circuit board
IC3	87-027-381-01	IC, LM1011N
LPF2	87-030-061-01	Low-pass filter
		< Capacitor >
C32	87-015-241-01	1μF 50V Electrolytic LL

≪ JACK CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-F	82-164-611-01	Jack circuit board
J1,2,3,4	82-399-609-01	Pin jack ass'y (Line out/Play, Line in/Rec.)

≪ LED-1 CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-G	82-164-612-01	LED-1 circuit board
D1,2	87-027-632-01	Light emitting diode

≪ LED-2 CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-H	82-150-634-01	LED-2 circuit board
D1	87-027-463-01	Light emitting diode

≪ POWER CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-I	82-150-615-01	Power circuit board
Q9,10,12,13	89-318-156-01	Transistor, 2SC1815 (BL)
D1	87-027-376-01	Diode, 1B4B41
⚠F1	87-035-249-01	Fuse, 1A
⚠	87-033-147-01	Fuse clamp
PIN3,4	87-032-903-01	Pin, 3P

≪ AUTO STOP CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-J	82-150-231-01	Auto stop circuit board
	82-150-331-01	Auto stop ass'y

≪ DME CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
PCB-K	82-150-256-01	DME circuit board
	82-150-277-01	DME ass'y

≪ POWER SWITCH CIRCUIT BOARD SECTION ≫

Symbol No.	Part No.	Description
⚠PCB-L	82-164-617-01	Power switch circuit board
⚠S8	87-031-574-01	Push switch (POWER)

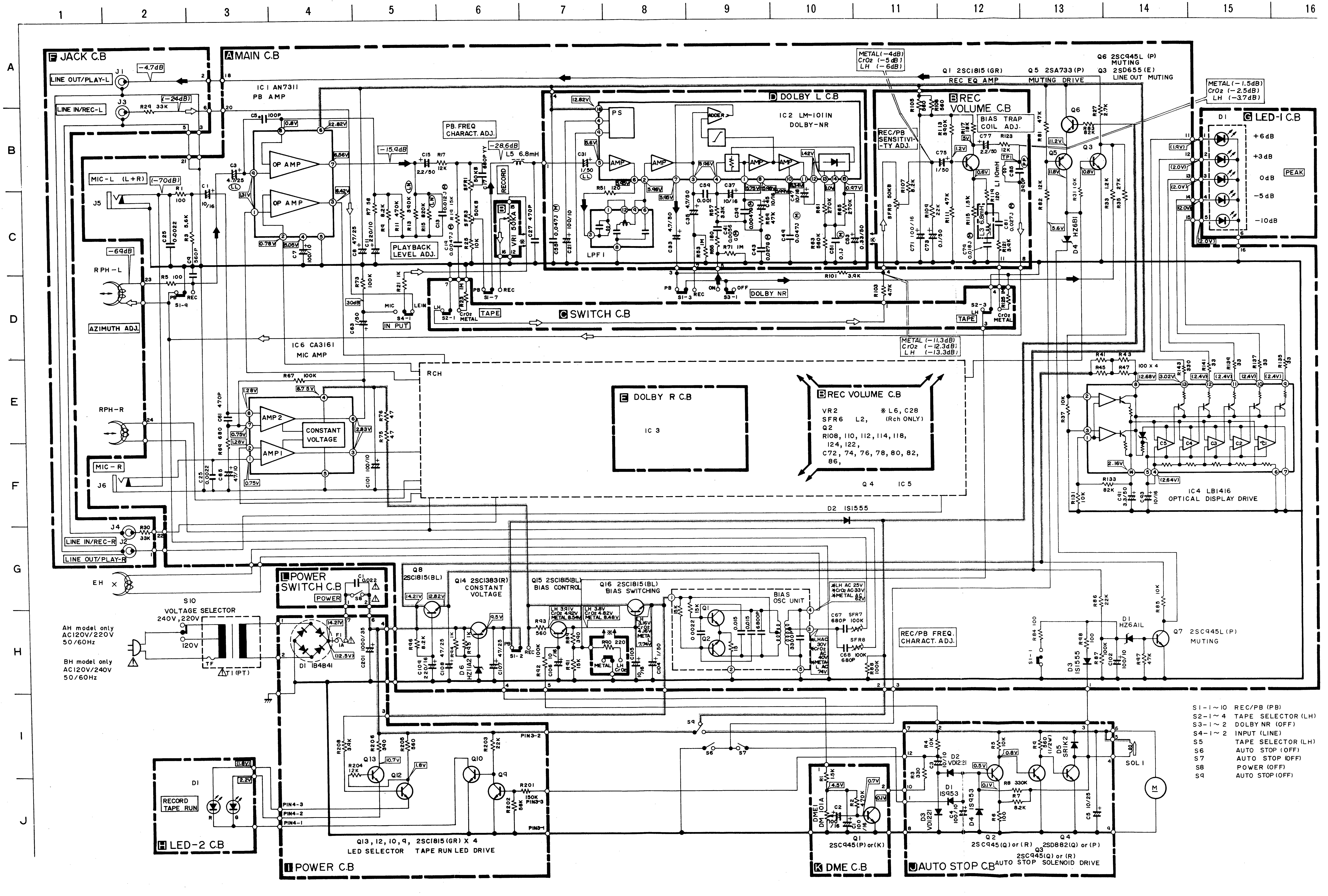
≪ MISCELLANEOUS ≫

Symbol No.	Part No.	Description
⚠ T_1	82-164-602-01	Power Transformer (AH model only)
⚠ T_1	82-164-619-01	Power Transformer (BH model only)
RPH	87-046-159-01	REC/PB head
EH	87-046-176-01	Erase head
SOL1	82-150-283-01	Solenoid ass'y
M	82-150-266-01	DC motor
S6	82-150-269-01	Leaf switch (AUTO STOP)
S7	82-150-289-01	Leaf switch (AUTO STOP)
S9	82-150-287-01	Micro switch (AUTO STOP)
⚠S10	82-375-623-01	Slide siwtch (VOLTAGE SELECTOR)
⚠	87-033-140-01	Splice connector
⚠	87-034-934-01	AC power cord
⚠	87-085-165-01	Cord bushing
CON-1	82-150-625-01	3P connector ass'y
CON-2	82-164-622-01	3P connector ass'y
CON-3	82-150-627-01	3P connector ass'y
CON-4	82-150-628-01	3P connector ass'y

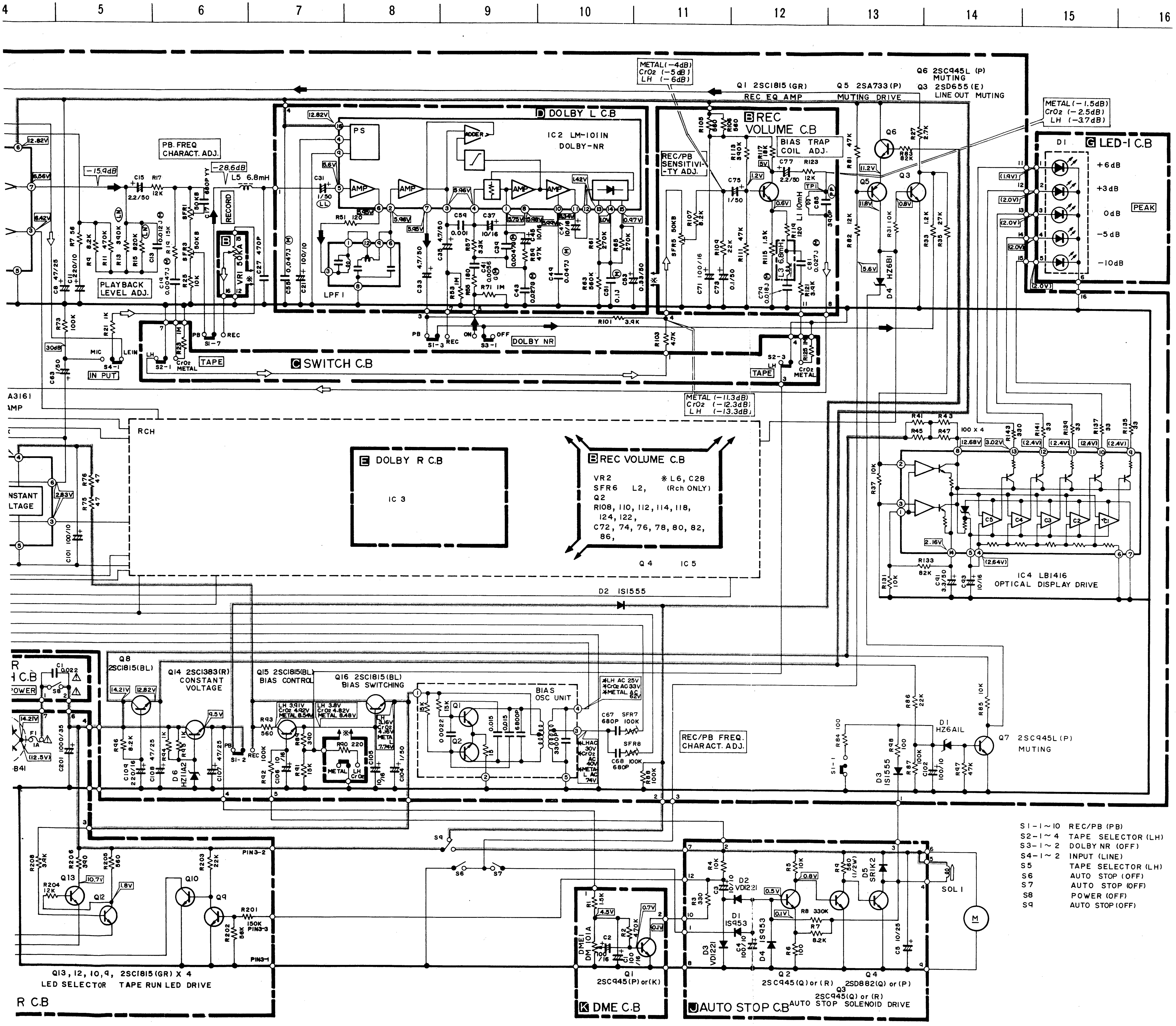
⚠ This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ **MEMO** ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆ ☆

SCHEMATIC DIAGRAM


F JACK C.B
A MAIN C.B
D DOLBY L C.B
B REC VOLUME C.B
G LED-1 C.B
C SWITCH C.B
E DOLBY R C.B
B REC VOLUME C.B
L POWER SWITCH C.B
I POWER C.B
H LED-2 C.B
K DME C.B
J AUTO STOP C.B
LINE OUT/PLAY-L
LINE IN/REC-L
MIC-L (L+R)
RPH-L
AZIMUTH ADJ.
RPH-R
MIC-R
LINE IN/REC-R
LINE OUT/PLAY-R
IC1 AN7311
PB AMP
OP AMP
PB. FREQ CHARACT. ADJ.
PLAYBACK LEVEL ADJ.
RECORD
IC2 LM-1011N
DOLBY-NR
PS
AMP
ADDER
LPF1
DOLBY NR
TAPE
IN PUT
REC/PB SENSITIVI-TY ADJ.
BIAS TRAP COIL ADJ.
Q1 2SC1815 (GR)
REC EQ AMP
Q5 2SA733 (P)
MUTING DRIVE
Q6 2SC945L (P)
MUTING
Q3 2SD655 (E)
LINE OUT MUTING
METAL (-4dB)
CrO2 (-5dB)
LH (-6dB)
METAL (-1.5dB)
CrO2 (-2.5dB)
LH (-3.7dB)
METAL (-11.3dB)
CrO2 (-12.3dB)
LH (-13.3dB)
+6dB
+3dB
0dB
-5dB
-10dB
PEAK
IC6 CA3161
MIC AMP
AMP 2
AMP 1
CONSTANT VOLTAGE
RCH
IC 3
VR2
SFR6 L2,
Q2
R108, 110, 112, 114, 118,
124, 122,
C72, 74, 76, 78, 80, 82,
86,
※L6, C28
(Rch ONLY)
Q4
IC5
IC4 LB1416
OPTICAL DISPLAY DRIVE
D2 1S1555
EH
S10
VOLTAGE SELECTOR
240V, 220V
120V
AH model only
AC120V/220V
50/60Hz
BH model only
AC120V/240V
50/60Hz
TF
T1 (PT)
D1 1B4B41
POWER
Q8 2SC1815 (BL)
Q14 2SC1383 (R)
CONSTANT VOLTAGE
Q15 2SC1815 (BL)
BIAS CONTROL
Q16 2SC1815 (BL)
BIAS SWITCHING
BIAS OSC UNIT
REC/PB FREQ. CHARACT. ADJ.
D1 HZ6AIL
Q7 2SC945L (P)
MUTING
RECORD
TAPE RUN
Q13, 12, 10, 9, 2SC1815 (GR) × 4
LED SELECTOR
TAPE RUN LED DRIVE
DME1 DM101A
Q1
2SC945 (P) or (K)
Q2
2SC945 (Q) or (R)
Q3
2SC945 (Q) or (R)
Q4
2SD882 (Q) or (P)
AUTO STOP SOLENOID DRIVE
SOL 1
M

S1-1 ~ 10	REC/PB	(PB)
S2-1 ~ 4	TAPE SELECTOR	(LH)
S3-1 ~ 2	DOLBY NR	(OFF)
S4-1 ~ 2	INPUT	(LINE)
S5	TAPE SELECTOR	(LH)
S6	AUTO STOP	(OFF)
S7	AUTO STOP	(OFF)
S8	POWER	(OFF)
S9	AUTO STOP	(OFF)

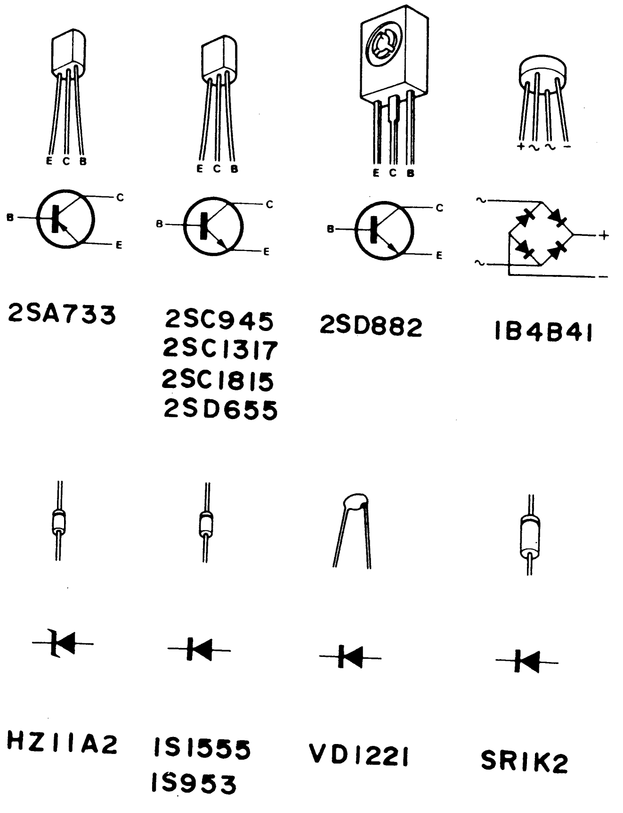

D DOLBY L C.B
IC2 LM-1011N DOLBY-NR
B REC VOLUME C.B
BIAS TRAP COIL ADJ.
REC/PB SENSITIVITY ADJ.
PB. FREQ CHARACT. ADJ.
PLAYBACK LEVEL ADJ.
C SWITCH C.B
G LED-1 C.B
+6dB
+3dB
0dB
-5dB
-10dB
PEAK
IC4 LB1416 OPTICAL DISPLAY DRIVE
E DOLBY R C.B
IC 3
RCH
Q1 2SC1815 (GR) REC EQ AMP
Q5 2SA733 (P) MUTING DRIVE
Q6 2SC945L (P) MUTING
Q3 2SD655 (E) LINE OUT MUTING
Q8 2SC1815(BL)
Q14 2SC1383(R) CONSTANT VOLTAGE
Q15 2SC1815(BL) BIAS CONTROL
Q16 2SC1815 (BL) BIAS SWITCHING
BIAS OSC UNIT
REC/PB FREQ. CHARACT. ADJ.
Q7 2SC945L (P) MUTING
D2 1S1555
Q13, 12, 10, 9, 2SC1815 (GR) X 4
LED SELECTOR TAPE RUN LED DRIVE
R C.B
K DME C.B
Q1 2SC945(P) or (K)
J AUTO STOP C.B
AUTO STOP SOLENOID DRIVE
SOL 1
S1-1~10 REC/PB (PB)
S2-1~4 TAPE SELECTOR (LH)
S3-1~2 DOLBY NR (OFF)
S4-1~2 INPUT (LINE)
S5 TAPE SELECTOR (LH)
S6 AUTO STOP (OFF)
S7 AUTO STOP (OFF)
S8 POWER (OFF)
S9 AUTO STOP (OFF)

NOTES:

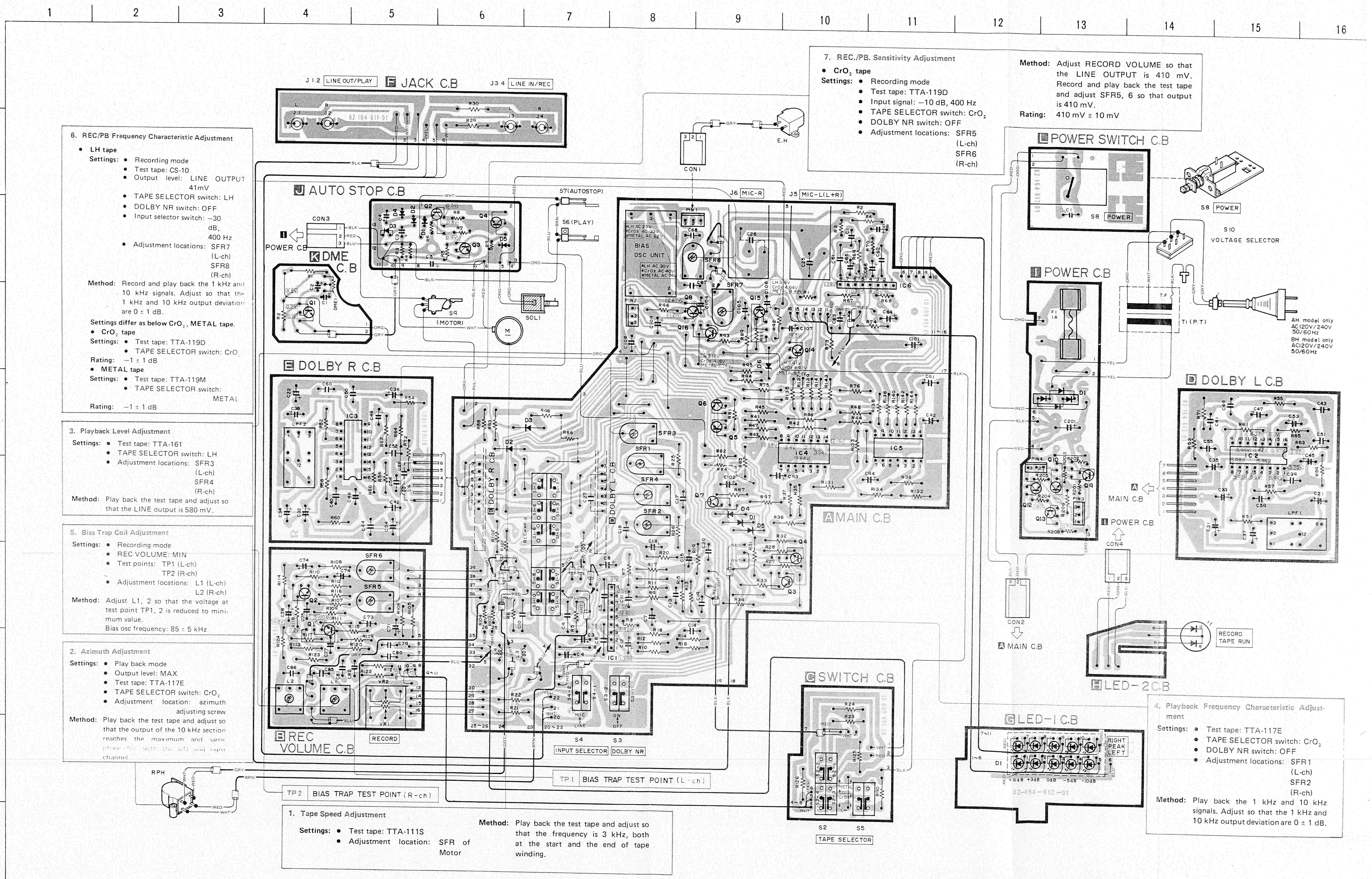
1) B (+) power supply
2) ➡ Signal path
   ⇨ Rec path
3) The voltage is the reference value measured with a tester (20 k-ohms/V DC) when there are no signals. But ( ) is with recording. An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
4) Resistors with no designation have a rated power of ¼W and a tolerance of ±5%.
5) Capacitors with no designation have a dielectric strength of less than 50WV.
6) The only capacitor tolerances indicated are ±5% (J) and ±10% (K).
7) Ceramic capacitor symbols:
   - For temperature compensation (SL)
   - High dielectric constant system (YY)
   - High dielectric constant system (YW, YP, YZ)
   - Semiconductor ceramic
8) Explanation of symbols
   - Ⓜ Mylar capacitor
   - (PP) Polypropylene film capacitor
   - (LL) Low-leakage capacitor
   - ⚠ Safety component symbol

   This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

- This schematic diagram is subject to change without notice in the interests of improved performance.


E C B
2SA733
2SC945
2SC1317
2SC1815
2SD655
2SD882
1B4B41
HZ11A2
1S1555
1S953
VD1221
SR1K2

WIRING -1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A
B
C
D
E
F
G
H
I
J
J 1.2 LINE OUT/PLAY
F JACK C.B
J3.4 LINE IN/REC
J AUTO STOP C.B
CON3
POWER C.B
K DME C.B
S7 (AUTOSTOP)
S6 (PLAY)
S9 (MOTOR)
SOLI
M
E DOLBY R C.B
B REC VOLUME C.B
RECORD
CON1
E.H
J6 MIC-R
J5 MIC-L(L+R)
BIAS OSC UNIT
A MAIN C.B
IC6
IC4
IC5
IC1
IC3
SFR1
SFR2
SFR3
SFR4
SFR5
SFR6
SFR7
SFR8
S4
S3
INPUT SELECTOR
DOLBY NR
TP1 BIAS TRAP TEST POINT (L-ch)
TP2 BIAS TRAP TEST POINT (R-ch)
RPH
L POWER SWITCH C.B
S8 POWER
S10 VOLTAGE SELECTOR
I POWER C.B
T1 (P.T)
AH model only AC120V/240V 50/60Hz
BH model only AC120V/240V 50/60Hz
D DOLBY L C.B
IC2
LPF1
LPF2
A MAIN C.B
I POWER C.B
CON4
CON2
A MAIN C.B
RECORD TAPE RUN
H LED-2 C.B
C SWITCH C.B
S2
S5
TAPE SELECTOR
G LED-1 C.B
RIGHT PEAK LEFT
-16dB +3dB 0dB -5dB -10dB
D1

1. Tape Speed Adjustment

Settings:
- Test tape: TTA-111S
- Adjustment location: SFR of Motor

Method: Play back the test tape and adjust so that the frequency is 3 kHz, both at the start and the end of tape winding.

2. Azimuth Adjustment

Settings:
- Play back mode
- Output level: MAX
- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO_2
- Adjustment location: azimuth adjusting screw

Method: Play back the test tape and adjust so that the output of the 10 kHz section reaches the maximum and same phase for both the left and right channel.

3. Playback Level Adjustment

Settings:
- Test tape: TTA-161
- TAPE SELECTOR switch: LH
- Adjustment locations: SFR3 (L-ch) SFR4 (R-ch)

Method: Play back the test tape and adjust so that the LINE output is 580 mV.

4. Playback Frequency Characteristic Adjustment

Settings:
- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO_2
- DOLBY NR switch: OFF
- Adjustment locations: SFR1 (L-ch) SFR2 (R-ch)

Method: Play back the 1 kHz and 10 kHz signals. Adjust so that the 1 kHz and 10 kHz output deviation are 0 ± 1 dB.

5. Bias Trap Coil Adjustment

Settings:
- Recording mode
- REC VOLUME: MIN
- Test points: TP1 (L-ch) TP2 (R-ch)
- Adjustment locations: L1 (L-ch) L2 (R-ch)

Method: Adjust L1, 2 so that the voltage at test point TP1, 2 is reduced to minimum value.
Bias osc frequency: 85 ± 5 kHz

6. REC/PB Frequency Characteristic Adjustment

- **LH tape**

Settings:
- Recording mode
- Test tape: CS-10
- Output level: LINE OUTPUT 41mV
- TAPE SELECTOR switch: LH
- DOLBY NR switch: OFF
- Input selector switch: –30 dB, 400 Hz
- Adjustment locations: SFR7 (L-ch) SFR8 (R-ch)

Method: Record and play back the 1 kHz and 10 kHz signals. Adjust so that the 1 kHz and 10 kHz output deviation are 0 ± 1 dB.

Settings differ as below CrO_2, METAL tape.

- **CrO_2 tape**

Settings:
- Test tape: TTA-119D
- TAPE SELECTOR switch: CrO

Rating: –1 ± 1 dB

- **METAL tape**

Settings:
- Test tape: TTA-119M
- TAPE SELECTOR switch: METAL

Rating: –1 ± 1 dB

7. REC./PB. Sensitivity Adjustment

- CrO_2 tape

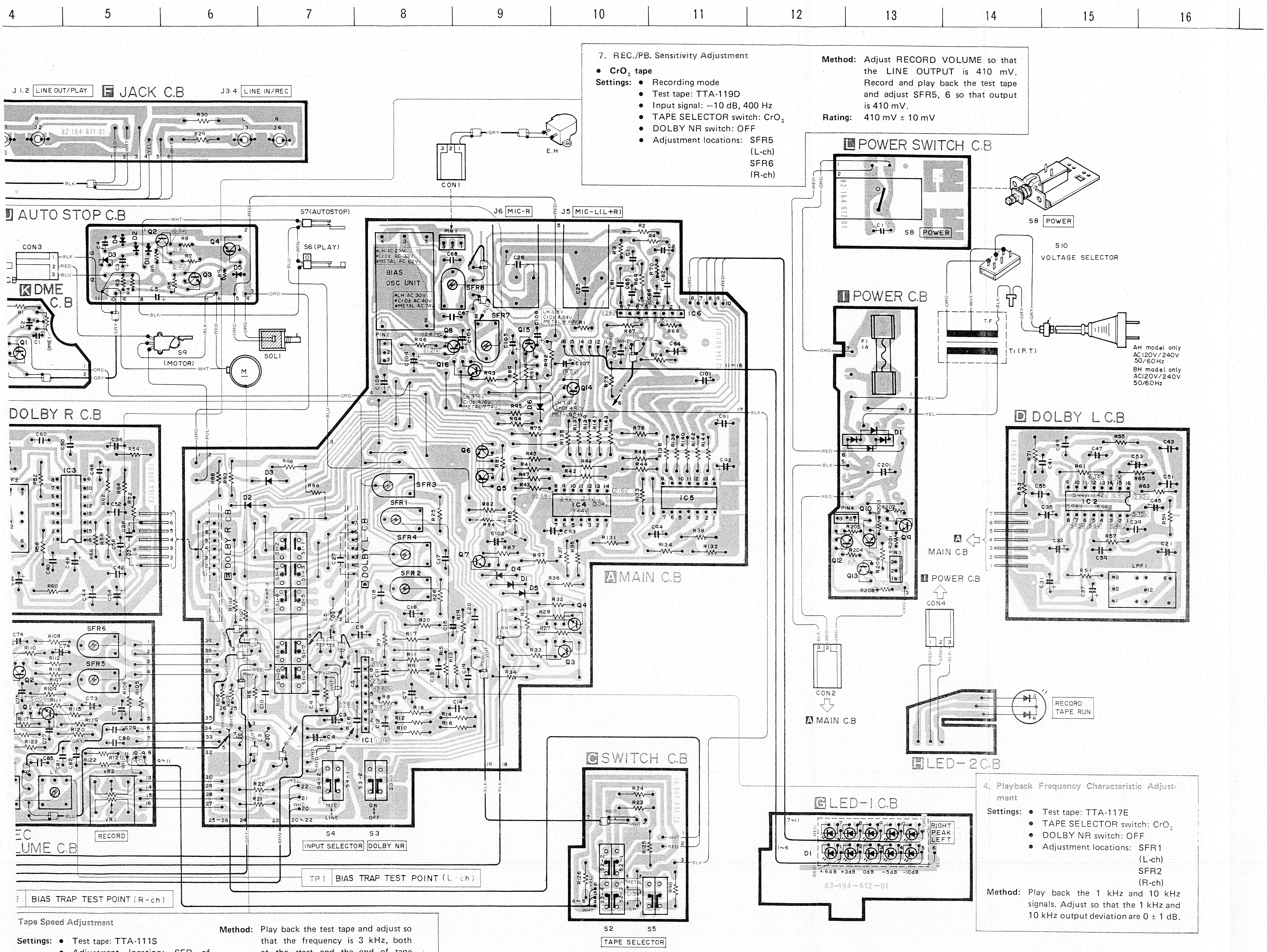
Settings:
- Recording mode
- Test tape: TTA-119D
- Input signal: –10 dB, 400 Hz
- TAPE SELECTOR switch: CrO_2
- DOLBY NR switch: OFF
- Adjustment locations: SFR5 (L-ch) SFR6 (R-ch)

Method: Adjust RECORD VOLUME so that the LINE OUTPUT is 410 mV. Record and play back the test tape and adjust SFR5, 6 so that output is 410 mV.

Rating: 410 mV ± 10 mV

NOTES (1) ▨ B(+) Pattern ▩ Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) w
An asterisk (*) indicates that the value was measured with a vacuum-tube volt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14
15
16
J 1.2 LINE OUT/PLAY
F JACK C.B
J 3.4 LINE IN/REC
J AUTO STOP C.B
S7 (AUTOSTOP)
S6 (PLAY)
J6 MIC-R
J5 MIC-L(L+R)
CON1
E.H
K DME C.B
S9 (MOTOR)
SOL1
M
BIAS OSC UNIT
SFR8
SFR7
IC6
IC5
IC4
SFR3
SFR1
SFR4
SFR2
IC1
A MAIN C.B
E DOLBY R C.B
D DOLBY L C.B
DOLBY R C.B
IC3
SFR6
SFR5
VR1
VR2
RECORD
EC
UME C.B
S4
INPUT SELECTOR
S3
DOLBY NR
C SWITCH C.B
S2
S5
TAPE SELECTOR
L POWER SWITCH C.B
S8 POWER
S10
VOLTAGE SELECTOR
I POWER C.B
T1 (P.T)
AH model only AC120V/240V 50/60Hz
BH model only AC120V/240V 50/60Hz
D DOLBY L C.B
IC2
LPF1
A MAIN C.B
I POWER C.B
CON4
CON2
A MAIN C.B
RECORD TAPE RUN
H LED-2C.B
G LED-1 C.B
RIGHT PEAK LEFT
+6dB +3dB 0dB −5dB −10dB
TP1 BIAS TRAP TEST POINT (L-ch)
BIAS TRAP TEST POINT (R-ch)

7. REC./PB. Sensitivity Adjustment

- CrO_2 tape

Settings:
- Recording mode
- Test tape: TTA-119D
- Input signal: −10 dB, 400 Hz
- TAPE SELECTOR switch: CrO_2
- DOLBY NR switch: OFF
- Adjustment locations: SFR5 (L-ch) SFR6 (R-ch)

Method: Adjust RECORD VOLUME so that the LINE OUTPUT is 410 mV. Record and play back the test tape and adjust SFR5, 6 so that output is 410 mV.

Rating: 410 mV ± 10 mV

Tape Speed Adjustment

Settings:
- Test tape: TTA-111S
- Adjustment location: SFR of Motor

Method: Play back the test tape and adjust so that the frequency is 3 kHz, both at the start and the end of tape winding.

4. Playback Frequency Characteristic Adjustment

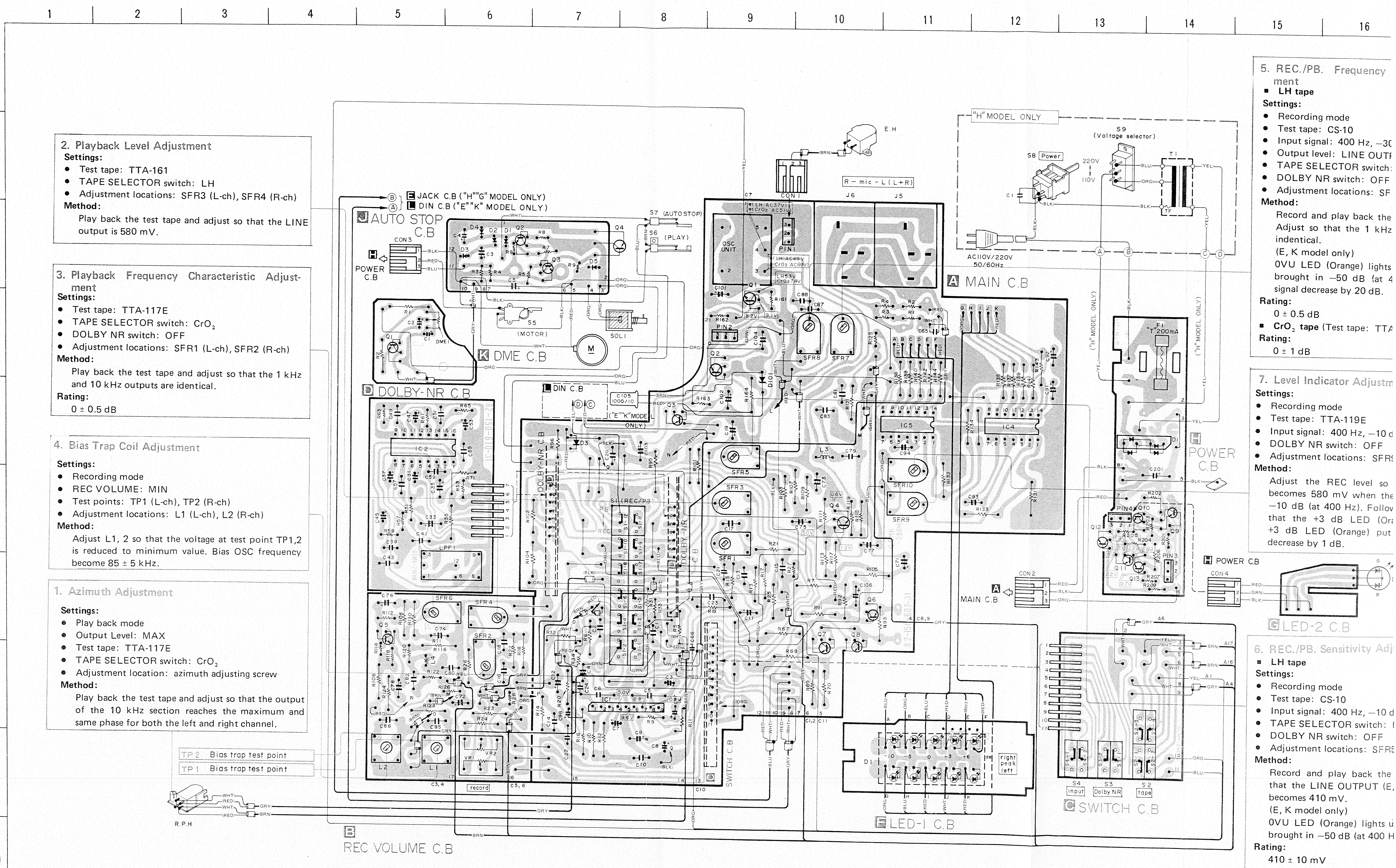
Settings:
- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO_2
- DOLBY NR switch: OFF
- Adjustment locations: SFR1 (L-ch) SFR2 (R-ch)

Method: Play back the 1 kHz and 10 kHz signals. Adjust so that the 1 kHz and 10 kHz output deviation are 0 ± 1 dB.

NOTES (1) ▨ B(+) Pattern ▨ Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals. An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.

WIRING–1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A
B
C
D
E
F
G
H
I
J
E JACK C.B ("H""G" MODEL ONLY)
L DIN C.B ("E""K" MODEL ONLY)
J AUTO STOP C.B
H POWER C.B
K DME C.B
D DOLBY-NR C.B
L DIN C.B
A MAIN C.B
"H" MODEL ONLY
S9 (Voltage selector)
S8 Power
220V
110V
T1
AC110V/220V 50/60Hz
E.H
CON 1
R – mic – L (L+R)
J6
J5
OSC UNIT
S7 (AUTO STOP)
S6 (PLAY)
(MOTOR)
SOL1
F1 "T"200mA
POWER C.B
MAIN C.B
CON 2
CON 4
G LED-2 C.B
S1 (REC/PB)
SWITCH C.B
F LED-1 C.B
right peak left
C SWITCH C.B
S4 input
S3 Dolby NR
S2 tape
B REC VOLUME C.B
TP 2 Bias trap test point
TP 1 Bias trap test point
R.P.H
record

2. Playback Level Adjustment

Settings:

- Test tape: TTA-161
- TAPE SELECTOR switch: LH
- Adjustment locations: SFR3 (L-ch), SFR4 (R-ch)

Method:

Play back the test tape and adjust so that the LINE output is 580 mV.

3. Playback Frequency Characteristic Adjustment

Settings:

- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO$_2$
- DOLBY NR switch: OFF
- Adjustment locations: SFR1 (L-ch), SFR2 (R-ch)

Method:

Play back the test tape and adjust so that the 1 kHz and 10 kHz outputs are identical.

Rating:

0 ± 0.5 dB

4. Bias Trap Coil Adjustment

Settings:

- Recording mode
- REC VOLUME: MIN
- Test points: TP1 (L-ch), TP2 (R-ch)
- Adjustment locations: L1 (L-ch), L2 (R-ch)

Method:

Adjust L1, 2 so that the voltage at test point TP1,2 is reduced to minimum value. Bias OSC frequency become 85 ± 5 kHz.

1. Azimuth Adjustment

Settings:

- Play back mode
- Output Level: MAX
- Test tape: TTA-117E
- TAPE SELECTOR switch: CrO$_2$
- Adjustment location: azimuth adjusting screw

Method:

Play back the test tape and adjust so that the output of the 10 kHz section reaches the maximum and same phase for both the left and right channel.

5. REC./PB. Frequency ment

- **LH tape**

Settings:

- Recording mode
- Test tape: CS-10
- Input signal: 400 Hz, –3
- Output level: LINE OUT
- TAPE SELECTOR switch
- DOLBY NR switch: OFF
- Adjustment locations: SF

Method:

Record and play back the Adjust so that the 1 kHz indentical.

(E, K model only)

0VU LED (Orange) lights brought in –50 dB (at signal decrease by 20 dB.

Rating:

0 ± 0.5 dB

- **CrO$_2$ tape** (Test tape: TT

Rating:

0 ± 1 dB

7. Level Indicator Adjustm

Settings:

- Recording mode
- Test tape: TTA-119E
- Input signal: 400 Hz, –10
- DOLBY NR switch: OFF
- Adjustment locations: SFR

Method:

Adjust the REC level so becomes 580 mV when the –10 dB (at 400 Hz). Follo that the +3 dB LED (Or +3 dB LED (Orange) put decrease by 1 dB.

6. REC./PB. Sensitivity Adj

- **LH tape**

Settings:

- Recording mode
- Test tape: CS-10
- Input signal: 400 Hz, –10
- TAPE SELECTOR switch:
- DOLBY NR switch: OFF
- Adjustment locations: SFR

Method:

Record and play back the that the LINE OUTPUT (E, becomes 410 mV.

(E, K model only)

0VU LED (Orange) lights brought in –50 dB (at 400 H

Rating:

410 ± 10 mV

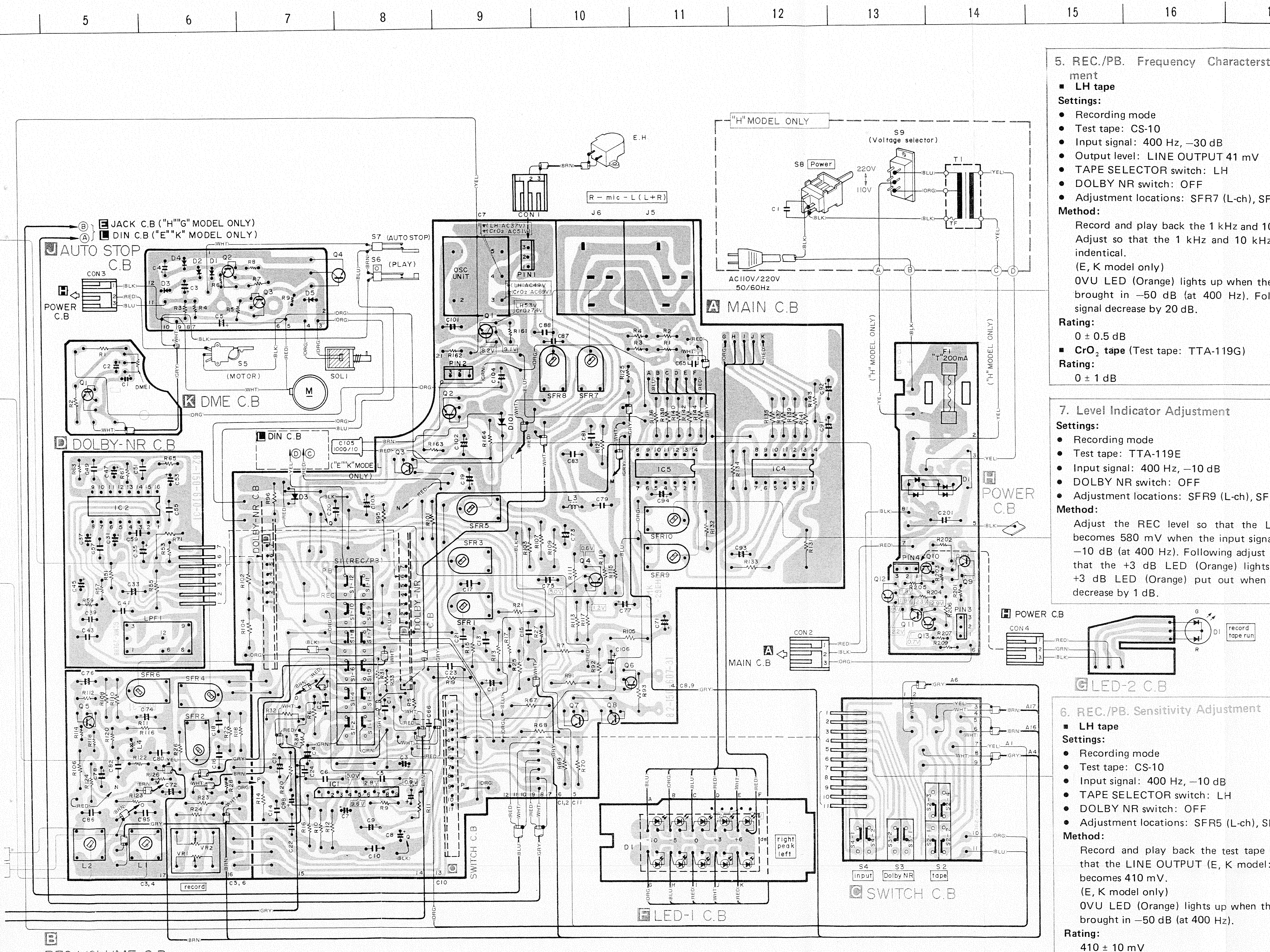
- **CrO$_2$ tape** (Test tape: TTA-

Rating:

0 ± 1 dB

NOTES (1) ▨ B(+) Pattern ▨ Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals. An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.


5
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19
E.H
CON 1
R - mic - L (L+R)
J6
J5
"H" MODEL ONLY
S9 (Voltage selector)
S8 Power
220V
110V
T1
AC110V/220V 50/60Hz
E JACK C.B ("H""G" MODEL ONLY)
L DIN C.B ("E""K" MODEL ONLY)
J AUTO STOP C.B
S7 (AUTO STOP)
S6 (PLAY)
H POWER C.B
CON 3
S5 (MOTOR)
SOL1
M
OSC UNIT
PIN 1
PIN 2
K DME C.B
D DOLBY-NR C.B
L DIN C.B
("E""K" MODE ONLY)
A MAIN C.B
SFR8
SFR7
SFR5
SFR3
SFR1
SFR10
SFR9
SFR6
SFR4
SFR2
IC5
IC4
IC2
IC1
LPF1
S1 (REC/PB)
DOLBY-NR C.B
SWITCH C.B
VR1
VR2
L2
L1
record
("H" MODEL ONLY)
F1 "T" 200mA
H POWER C.B
CON 2
A MAIN C.B
CON 4
PIN 3
PIN 4
record tape run
G LED-2 C.B
right peak left
F LED-1 C.B
S4 input
S3 Dolby NR
S2 tape
C SWITCH C.B
B REC VOLUME C.B

5. REC./PB. Frequency Characterstic Adjustment

- **LH tape**

Settings:

- Recording mode
- Test tape: CS-10
- Input signal: 400 Hz, −30 dB
- Output level: LINE OUTPUT 41 mV
- TAPE SELECTOR switch: LH
- DOLBY NR switch: OFF
- Adjustment locations: SFR7 (L-ch), SFR8 (R-ch)

Method:

Record and play back the 1 kHz and 10 kHz signals. Adjust so that the 1 kHz and 10 kHz outputs are indentical.

(E, K model only)

0VU LED (Orange) lights up when the input signal brought in −50 dB (at 400 Hz). Following input signal decrease by 20 dB.

Rating:

0 ± 0.5 dB

- **CrO$_2$ tape** (Test tape: TTA-119G)

Rating:

0 ± 1 dB

7. Level Indicator Adjustment

Settings:

- Recording mode
- Test tape: TTA-119E
- Input signal: 400 Hz, −10 dB
- DOLBY NR switch: OFF
- Adjustment locations: SFR9 (L-ch), SFR10 (R-ch)

Method:

Adjust the REC level so that the LINE output becomes 580 mV when the input signal brought in −10 dB (at 400 Hz). Following adjust SFR9, 10 so that the +3 dB LED (Orange) lights up. Finally +3 dB LED (Orange) put out when input signal decrease by 1 dB.

6. REC./PB. Sensitivity Adjustment

- **LH tape**

Settings:

- Recording mode
- Test tape: CS-10
- Input signal: 400 Hz, −10 dB
- TAPE SELECTOR switch: LH
- DOLBY NR switch: OFF
- Adjustment locations: SFR5 (L-ch), SFR6 (R-ch)

Method:

Record and play back the test tape and adjust so that the LINE OUTPUT (E, K model: DIN output) becomes 410 mV.

(E, K model only)

0VU LED (Orange) lights up when the input signal brought in −50 dB (at 400 Hz).

Rating:

410 ± 10 mV

- **CrO$_2$ tape** (Test tape: TTA-119G)

Rating:

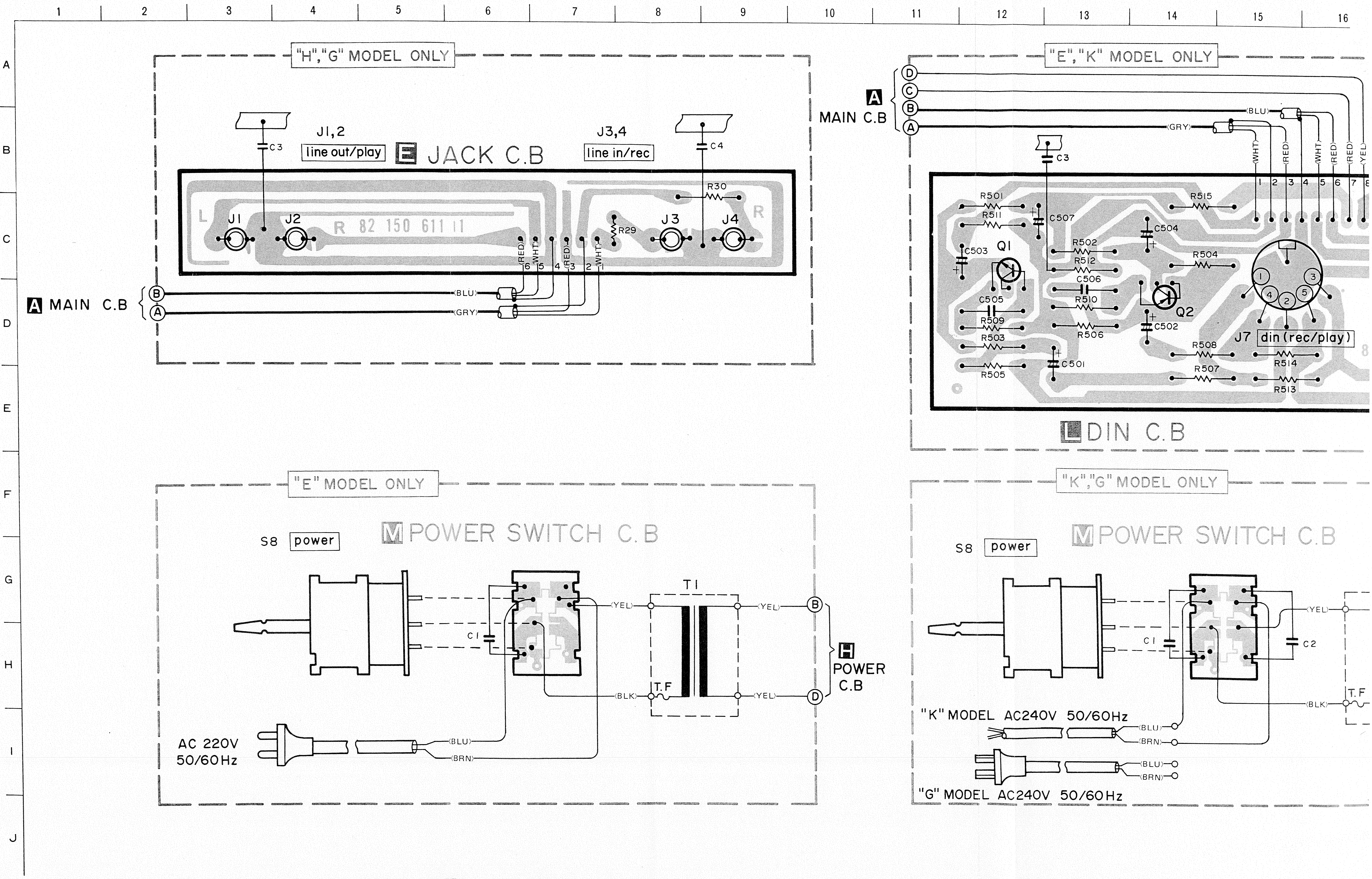
0 ± 1 dB

▨ B(+) Pattern ▨ Others pattern

The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

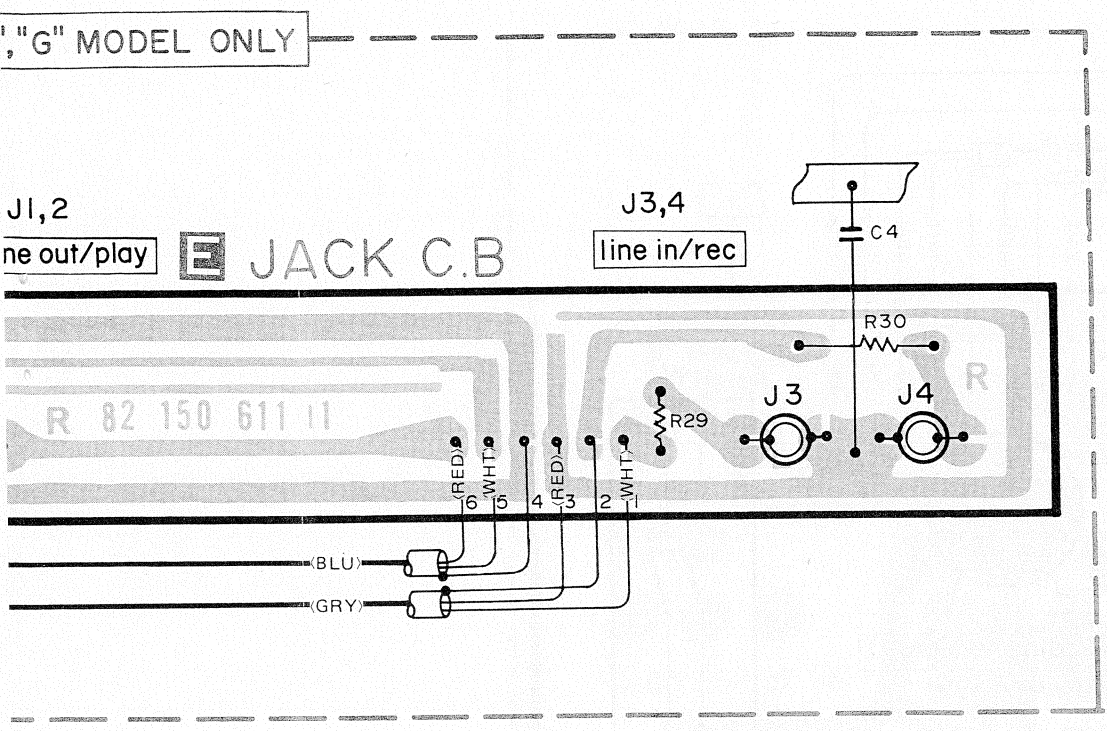
An asterisk (*) indicates that the value was measured with a vacuum-tube voltmeter during recording.

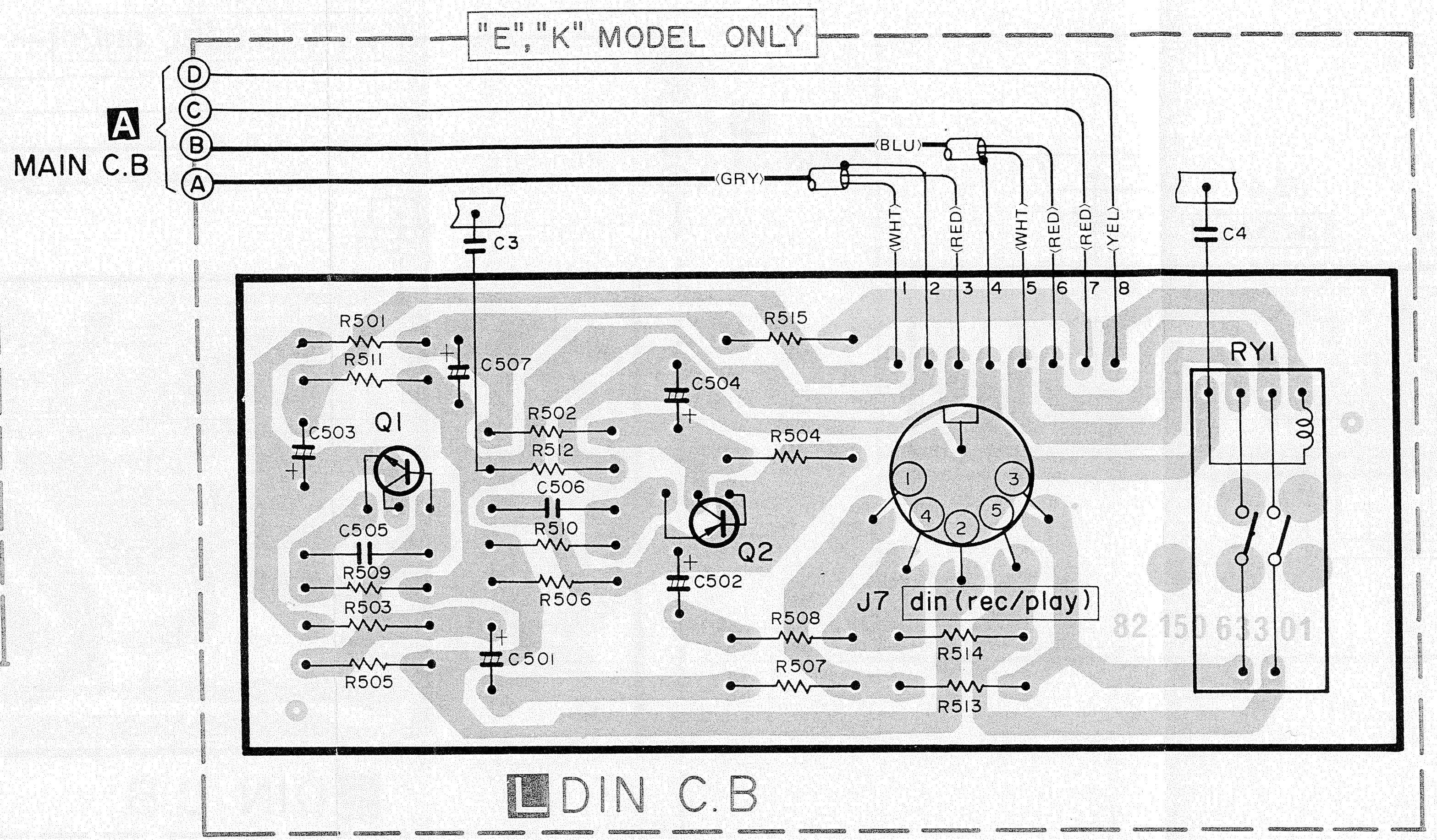
WIRING–2

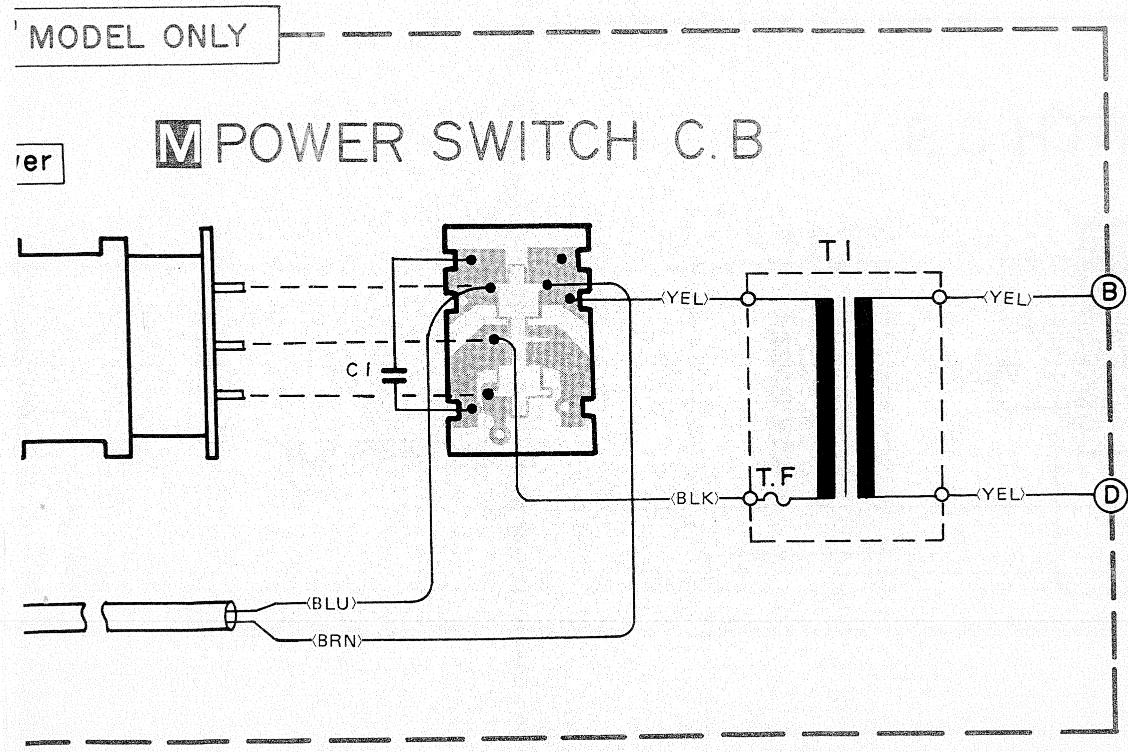

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
"H","G" MODEL ONLY
J1,2
line out/play
E JACK C.B
J3,4
line in/rec
C3
C4
R30
L
J1
J2
R 82 150 611 11
R29
J3
J4
R
(RED)
(WHT)
(RED)
(WHT)
6 5 4 3 2 1
A MAIN C.B
(BLU)
(GRY)
"E","K" MODEL ONLY
A MAIN C.B
(BLU)
(GRY)
(WHT)
(RED)
(WHT)
(RED)
(RED)
(YEL)
1 2 3 4 5 6 7 8
C3
R501
R511
C507
R515
C504
C503
Q1
R502
R512
R504
C506
C505
R510
Q2
R509
C502
R503
R506
R508
J7
din (rec/play)
C501
R514
R505
R507
R513
L DIN C.B
"E" MODEL ONLY
S8
power
M POWER SWITCH C.B
T1
C1
(YEL)
(YEL)
(BLK)
T.F
(YEL)
H POWER C.B
AC 220V
50/60Hz
(BLU)
(BRN)
"K","G" MODEL ONLY
S8
power
M POWER SWITCH C.B
C1
C2
(YEL)
(BLK)
T.F
"K" MODEL AC240V 50/60Hz
(BLU)
(BRN)
(BLU)
(BRN)
"G" MODEL AC240V 50/60Hz

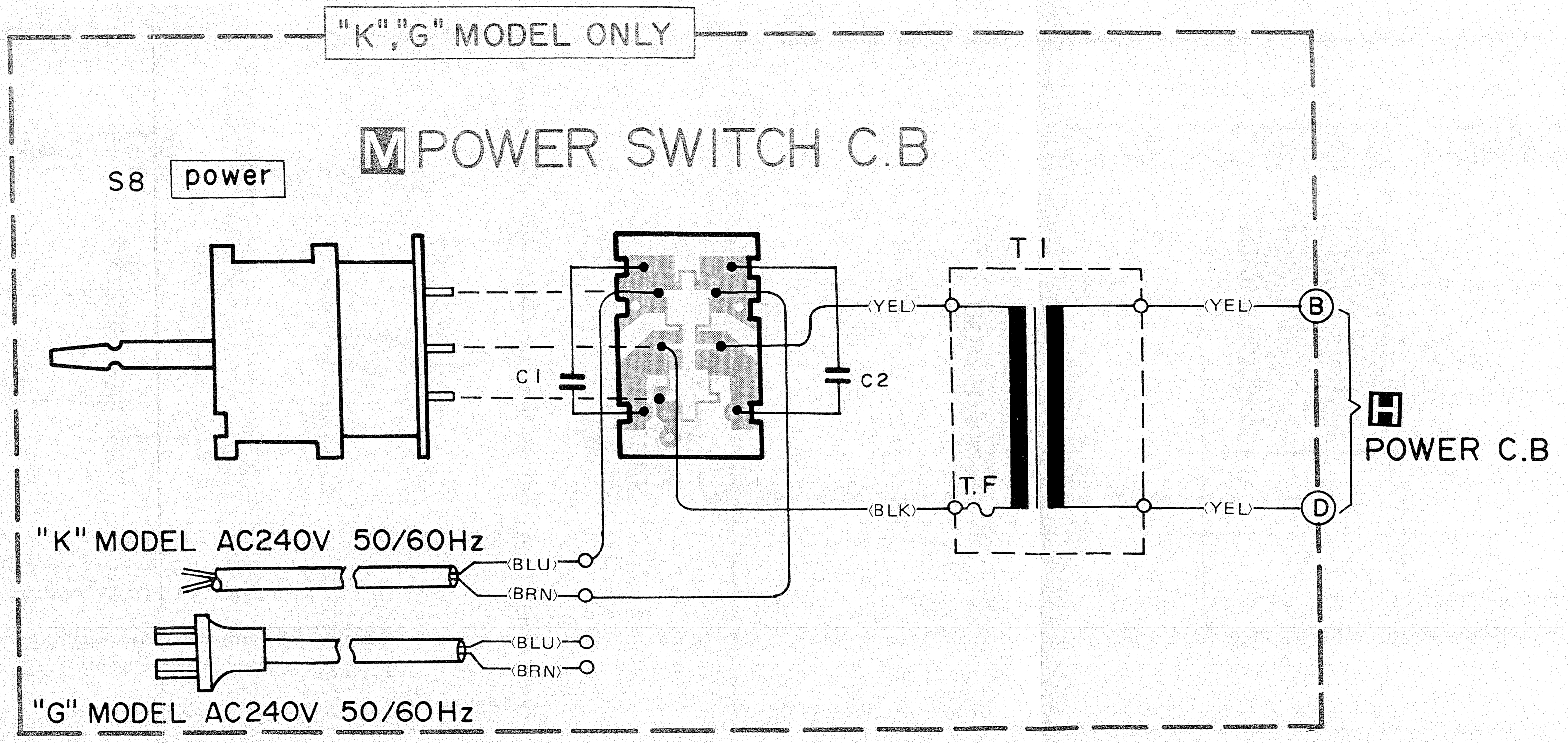
NOTES ▨ B(+) Pattern ▨ Others pattern

5 6 7 8 9 10 11 12 13 14 15 16


,"G" MODEL ONLY
J1,2
ne out/play
E JACK C.B
J3,4
line in/rec
C4
R30
R29
J3
J4
R 82 150 611 11
(RED)
(WHT)
(RED)
(WHT)
6 5 4 3 2 1
(BLU)
(GRY)

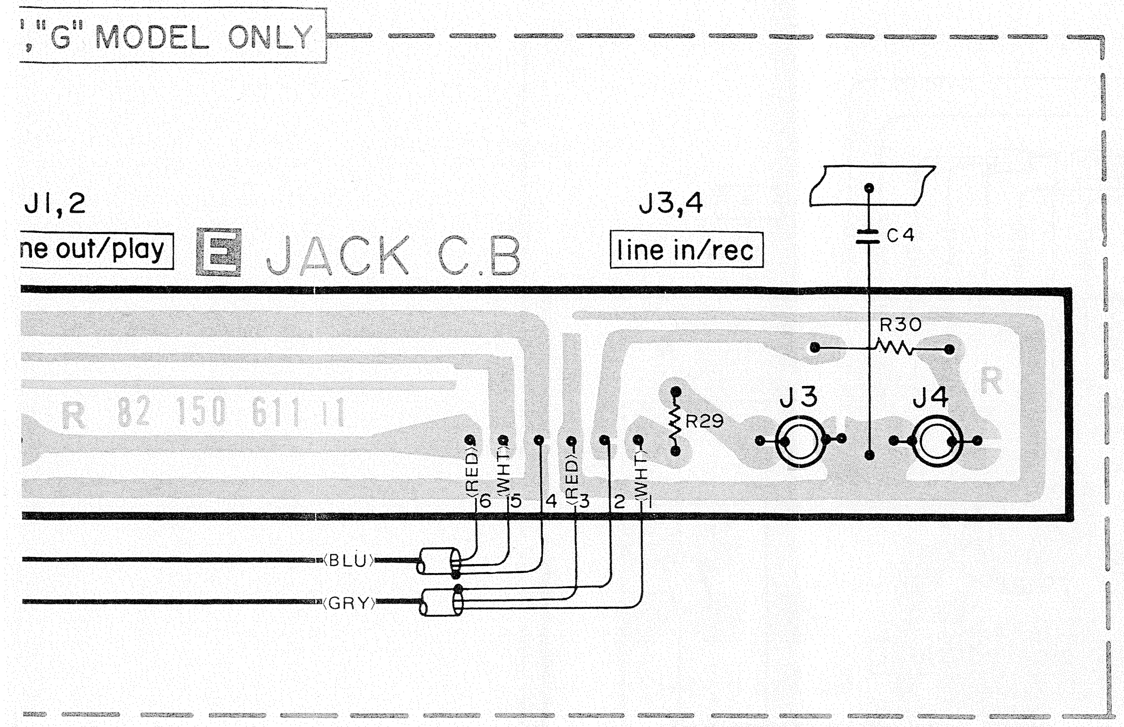

"E","K" MODEL ONLY
A MAIN C.B
D
C
B
A
(BLU)
(GRY)
(WHT)
(RED)
(WHT)
(RED)
(RED)
(YEL)
1 2 3 4 5 6 7 8
C3
C4
R501
R511
C507
R515
C504
C503
Q1
R502
R512
R504
C506
C505
R510
Q2
R509
R506
C502
R503
R508
J7
din (rec/play)
R514
C501
R505
R507
R513
RY1
82 150 633 01
L DIN C.B

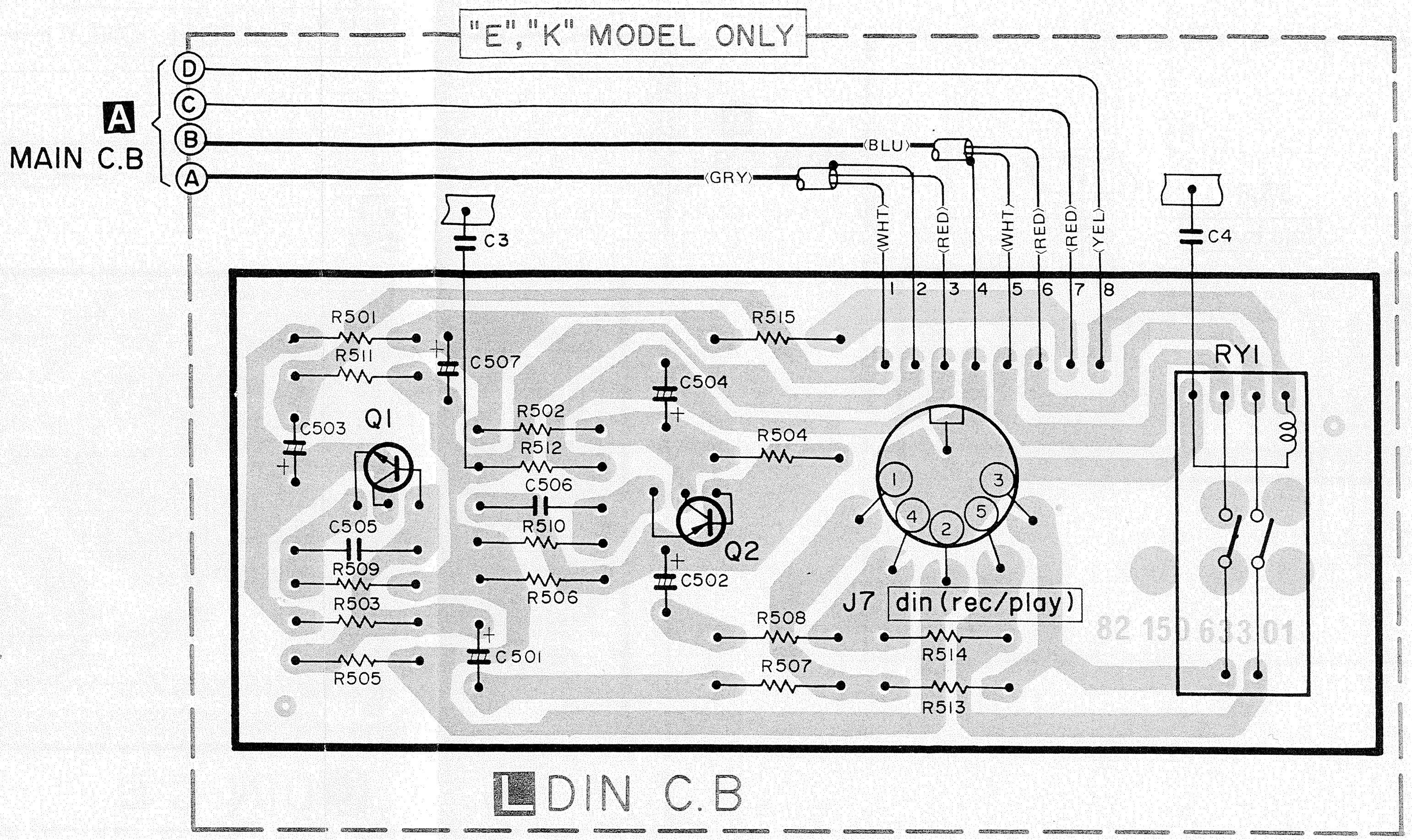

' MODEL ONLY
ver
M POWER SWITCH C.B
C1
(YEL)
T1
(YEL)
B
H POWER C.B
T.F
(BLK)
(YEL)
D
(BLU)
(BRN)

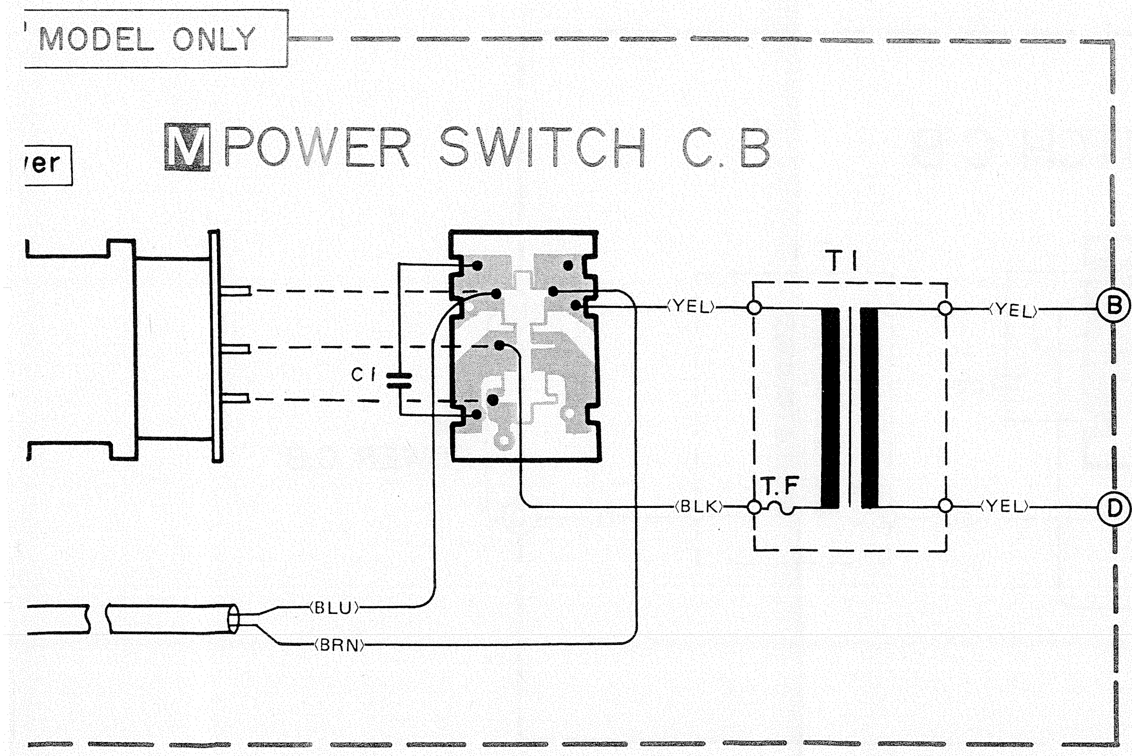

"K","G" MODEL ONLY
M POWER SWITCH C.B
S8
power
C1
C2
(YEL)
T1
(YEL)
B
H POWER C.B
T.F
(BLK)
(YEL)
D
"K" MODEL AC240V 50/60Hz
(BLU)
(BRN)
(BLU)
(BRN)
"G" MODEL AC240V 50/60Hz

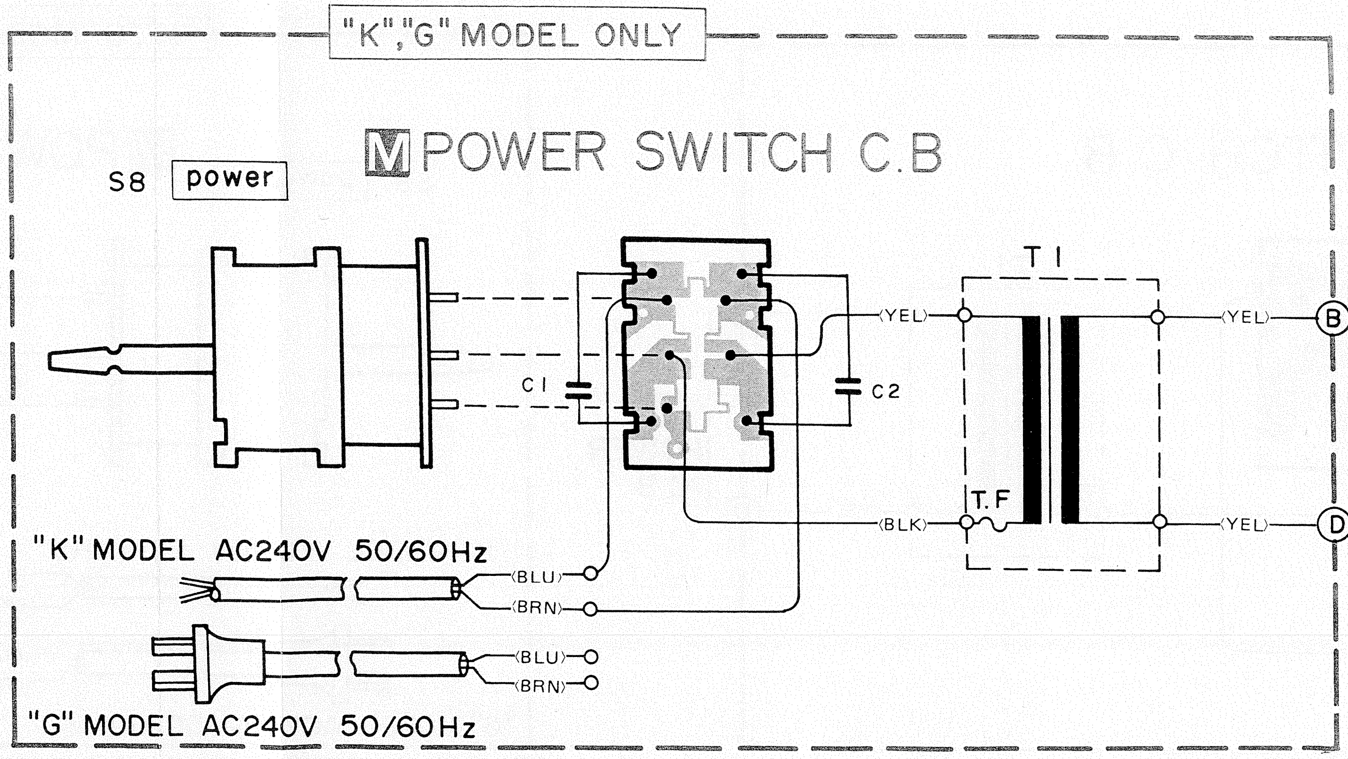
NOTES ▨ B(+) Pattern ▨ Others pattern

5 6 7 8 9 10 11 12 13 14 15 16


","G" MODEL ONLY
J1,2
ne out/play
E JACK C.B
J3,4
line in/rec
C4
R30
R29
J3
J4
R 82 150 611 11
R
(RED)
(WHT)
(RED)
(WHT)
6
5
4
3
2
1
(BLU)
(GRY)


"E","K" MODEL ONLY
A
MAIN C.B
D
C
B
A
(BLU)
(GRY)
(WHT)
(RED)
(WHT)
(RED)
(RED)
(YEL)
1 2 3 4 5 6 7 8
C3
C4
R501
R511
C507
R515
C504
R502
R512
R504
C503
Q1
C506
R510
C505
R509
R503
R505
R506
C502
Q2
C501
R508
R507
J7
din (rec/play)
R514
R513
RY1
82 150 633 01
L DIN C.B


' MODEL ONLY
M POWER SWITCH C.B
er
C1
T1
T.F
(YEL)
(YEL)
(BLK)
(YEL)
B
D
H
POWER C.B
(BLU)
(BRN)


"K","G" MODEL ONLY
M POWER SWITCH C.B
S8
power
C1
C2
T1
T.F
(YEL)
(YEL)
(BLK)
(YEL)
B
D
H
POWER C.B
"K" MODEL AC240V 50/60Hz
(BLU)
(BRN)
(BLU)
(BRN)
"G" MODEL AC240V 50/60Hz

NOTES ▨ B(+) Pattern ▨ Others pattern

CORRECTION

Adjustment compositions of model SD-L22H,E,K,G are incorect please amend as follows.

This model SD-L22H,E,K,G has no signal from LINE OUTPUT terminals when it is recording, so incase of adjustment, please apply DOLBY OUTPUT terminals instead of LINE OUTPUT terminals.

WIRING–1

⑤ REC./PB. Frequency Characterstic Adjustment

- ■ LH tape

Settings:

- Output level: LINE OUTPUT 41 mV

⇨

Settings:

- **Output level: DOLBY OUTPUT 41 mV**

⑥ REC./PB. Sensitivity Adjustment

- ■ LH tape

Method:

Record and play back the test tape and adjust so that the LINE OUTPUT (E,K model: DIN output) becomes 410 mV.

⇨

Method:

Record and play back the test tape and adjust so that the DOLBY OUTPUT becomes 410 mV.

⑦ Level Indicator Adjustment

Settings:

- Recording mode ⇨ **● Play back mode**
- Test tape: TTA-119E ⇨ **● Test tape: TTA-161**
- Input signal: 400 Hz, –10 dB ⇨ **(Deletion)**

Method:

Adjust the REC level so that the LINE output becomes 580 mV when the input signal brought in –10 dB (at 400 Hz). Following adjust SFR9, 10 so that the +3 dB LED (Orange) lights up. Finally +3 dB LED (Orange) put out when input signal decrease by 1 dB.

⇨

Method:

Adjust SFR9, 10 so that the +3 dB LED (Orange) lights up. Finally +3 dB LED (Orange) put out when input signal decrease by 1 dB.

AIWA CO., LTD.

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